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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 27.1585 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672a-8
Perfect score: 1935
Sequence: 1 MKIRLHTLAVLTAAAPLLA.....QPLPAVVKLSALTIATISS 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5.COMB.pep:*
2: /cgn2_6/prodata/1/iaa/6.COMB.pep:*
3: /cgn2_6/prodata/1/iaa/H.COMB.pep:*
4: /cgn2_6/prodata/1/iaa/PCTUS.COMB.pep:*
5: /cgn2_6/prodata/1/iaa/RE.COMB.pep:*
6: /cgn2_6/prodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1935	100.0	374	2	US-09-056-556-155 Sequence 155, App
2	1935	100.0	374	2	US-09-072-596-150 Sequence 150, App
3	1935	100.0	374	2	US-09-072-967-155 Sequence 155, App
4	1935	100.0	374	2	US-09-287-849-40 Sequence 40, App1
5	1935	100.0	374	2	US-10-193-002-150 Sequence 150, App
6	1935	100.0	374	2	US-10-084-843-155 Sequence 155, App
7	1931	99.8	374	2	US-08-818-112-153 Sequence 153, App
8	1931	99.8	374	2	US-08-818-111-148 Sequence 148, App
9	1931	99.8	374	2	US-09-056-556-153 Sequence 153, App
10	1931	99.8	374	2	US-09-072-596-148 Sequence 148, App
11	1931	99.8	374	2	US-09-072-967-153 Sequence 153, App
12	1931	99.8	374	2	US-09-287-849-6 Sequence 6, App11
13	1931	99.8	374	2	US-10-193-002-148 Sequence 148, App
14	1931	99.8	374	2	US-10-084-843-153 Sequence 153, App
15	1920.5	99.3	373	2	US-09-118-426-5 Sequence 5, App11
16	1821.5	94.1	802	2	US-09-056-556-214 Sequence 214, App
17	1821.5	94.1	802	2	US-09-072-596-209 Sequence 209, App
18	1821.5	94.1	802	2	US-09-072-596-346 Sequence 346, App
19	1821.5	94.1	802	2	US-09-072-967-214 Sequence 214, App
20	1821.5	94.1	802	2	US-09-072-967-351 Sequence 351, App
21	1821.5	94.1	802	2	US-09-287-849-10 Sequence 10, App1
22	1821.5	94.1	802	2	US-10-193-002-209 Sequence 209, App
23	1821.5	94.1	802	2	US-10-193-002-346 Sequence 346, App
24	1821.5	94.1	802	2	US-10-084-843-214 Sequence 214, App
25	1821.5	94.1	802	2	US-10-084-843-351 Sequence 351, App
26	1820	94.1	351	2	US-09-118-426-6 Sequence 6, App11
27	1820	94.1	652	2	US-09-072-596-350 Sequence 350, App

28	1820	94.1	652	2	US-09-072-967-355 Sequence 355, App
29	1820	94.1	652	2	US-10-193-002-350 Sequence 350, App
30	1820	94.1	652	2	US-10-084-843-355 Sequence 355, App
31	421	21.8	359	2	US-09-543-681A-6815 Sequence 6815, App
32	418	21.6	348	1	US-07-989-845-2 Sequence 2, App11
33	418	21.6	348	4	PCT-US93-11298-2 Sequence 10627, A
34	413.5	21.4	359	2	US-09-489-039A-10627 Sequence 251, App
35	386	19.9	432	2	US-08-311-731A-251 Sequence 73, App1
36	346.5	17.9	364	2	US-08-818-112-73 Sequence 74, App1
37	346.5	17.9	364	2	US-08-818-111-74 Sequence 74, App1
38	346.5	17.9	364	2	US-09-056-556-73 Sequence 74, App1
39	346.5	17.9	364	2	US-09-072-596-74 Sequence 74, App1
40	346.5	17.9	364	2	US-09-072-967-73 Sequence 73, App1
41	346.5	17.9	364	2	US-10-193-002-74 Sequence 74, App1
42	346.5	17.9	364	2	US-10-084-843-73 Sequence 74, App1
43	343.5	17.8	372	2	US-08-311-731A-379 Sequence 372, App
44	285	14.7	375	2	US-09-602-777A-342 Sequence 342, App
45	237.5	12.3	301	2	US-09-107-532A-4953 Sequence 4953, App

ALIGNMENTS

```
RESULT 1
US-09-056-556-155
; Sequence 155, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, David C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-APR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Marki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-09-056-556-155

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLAVLTAAAPLLAAGCGSKPSPGSETGAGTATTPASSPVTLAETGSL 60
DB 1 MKIRLHTLAVLTAAAPLLAAGCGSKPSPGSETGAGTATTPASSPVTLAETGSL 60
QY 61 LYPLEFNLGMPAFHRRYPNVTTITAGTGSAGIAQAAAGTVNIGASDAVYLSGDMAAHKL 120
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Db 61 LVPFLWGPAPHERPNTTITTAQGTGSGAGIAQAAAGVTNIGASDPAVYSEGDMAAHKGL 120
Qy 121 MNIALAISAOQVNNYLPVSEHLKNGKVLAAAMYOGTIKTWDDPQJIALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVNNYLPVSEHLKNGKVLAAAMYOGTIKTWDDPQJIALNPGVNLPGTAV 180
Qy 181 VPLHRSDSGDTFLFTQYLSKODPEGWGS PGFGTTVDPPAVPGALGENGNGMTGCAE 240
Db 181 VPLHRSDSGDTFLFTQYLSKODPEGWGS PGFGTTVDPPAVPGALGENGNGMTGCAE 240
Qy 241 TPGCAVYIGISFLDQASQSGLGSAQUGNSGNFLPDQASIOAAAAGFASKTPANOAISM 300
Db 241 TPGCAVYIGISFLDQASQSGLGSAQUGNSGNFLPDQASIOAAAAGFASKTPANOAISM 300
Qy 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Db 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 2
US-09-072-596-150
; Sequence 150, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yashir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghron, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072, 596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-09-072-596-150
Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;

Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MKIRHTTLAVITAAPELILAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGTL 60
Db 1 MKIRHTTLAVITAAPELILAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGTL 60
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Qy 121 MNIALAISAOQVNNYLPVSEHLKNGKVLAAAMYOGTIKTWDDPQJIALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVNNYLPVSEHLKNGKVLAAAMYOGTIKTWDDPQJIALNPGVNLPGTAV 180
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Db 181 VPLHRSDSGDTFLFTQYLSKODPEGWGS PGFGTTVDPPAVPGALGENGNGMTGCAE 240
Qy 241 TPGCAVYIGISFLDQASQSGLGSAQUGNSGNFLPDQASIOAAAAGFASKTPANOAISM 300
Db 241 TPGCAVYIGISFLDQASQSGLGSAQUGNSGNFLPDQASIOAAAAGFASKTPANOAISM 300
Qy 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Db 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 3
US-09-072-967-155
; Sequence 155, Application US/09072967
; Patent No. 6592877
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yashir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghron, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072, 967
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:

LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-967-155

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 LYLPLNMGPAFERHPNVTITTAQGTSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGL 120
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DB 181 VPLHRSDSGDTPLFTQYLSKODPEGWKGSPGFTTVDPPAVPGALGENGNGMVTGCAE 240
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DB 301 IDGPADGVPPIINVEYAIVNNRQDAATAQTLOAFILHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 4
US-09-287-849-40
Sequence 40, Application US/09287849
Patent No. 6627198
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287, 849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 40
LENGTH: 374
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: 38 kd antigen

US-09-287-849-40
Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRLHTLLAVLTAAPLLAAAGCGSKPPGSGPBTGAGTVAATTPASSPVTLAETGSTL 60
DB 1 MKRLHTLLAVLTAAPLLAAAGCGSKPPGSGPBTGAGTVAATTPASSPVTLAETGSTL 60
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DB 61 LYLPLNMGPAFERHPNVTITTAQGTSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGL 120
QY 121 MNIALAISAOQVYNNPGVSEHLKLNKYLAAAYOGTITKTWDDPOLAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNPGVSEHLKLNKYLAAAYOGTITKTWDDPOLAALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDTPLFTQYLSKODPEGWKGSPGFTTVDPPAVPGALGENGNGMVTGCAE 240
DB 181 VPLHRSDSGDTPLFTQYLSKODPEGWKGSPGFTTVDPPAVPGALGENGNGMVTGCAE 240
QY 241 TPECVAVYIGISFLDOASQRLGEAQLGNSGNFLPDAOSIQAAAAGFASKTPANOISM 300
DB 241 TPECVAVYIGISFLDOASQRLGEAQLGNSGNFLPDAOSIQAAAAGFASKTPANOISM 300
QY 301 IDGPADGVPPIINVEYAIVNNRQDAATAQTLOAFILHMAITDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPADGVPPIINVEYAIVNNRQDAATAQTLOAFILHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 5
US-10-193-002-150
Sequence 150, Application US/10193002
Patent No. 6949246
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Veddzik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-May-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 150:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 150:
US-10-193-002-150

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAITTPASSPVTLAETGSL 60
DB 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAITTPASSPVTLAETGSL 60
QY 61 LVPFLNMGPAFERHPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
DB 61 LVPFLNMGPAFERHPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
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DB 181 VPLHRSDGSDPTFLFTQYLSKODPEGWGSKPGFTTVDPAVPGALGNGNGMVTGCAG 240
QY 241 TPGCVAYIGISFLDQASQRLGEAOLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
DB 241 TPGCVAYIGISFLDQASQRLGEAOLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATQTLQAFIHMWITTDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATQTLQAFIHMWITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 6
US-10-084-843-155
Sequence 155, Application US/10084843
Patent No. 6962710
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 155:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 155:
US-10-084-843-155

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAITTPASSPVTLAETGSL 60
DB 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAITTPASSPVTLAETGSL 60
QY 61 LVPFLNMGPAFERHPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
DB 61 LVPFLNMGPAFERHPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDPTFLFTQYLSKODPEGWGSKPGFTTVDPAVPGALGNGNGMVTGCAG 240
DB 181 VPLHRSDGSDPTFLFTQYLSKODPEGWGSKPGFTTVDPAVPGALGNGNGMVTGCAG 240
QY 241 TPGCVAYIGISFLDQASQRLGEAOLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
DB 241 TPGCVAYIGISFLDQASQRLGEAOLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATQTLQAFIHMWITTDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATQTLQAFIHMWITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 7
US-08-818-112-153
Sequence 153, Application US/08818112
Patent No. 6290969
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-818-112-153

Query Match 99.8%; Score 1931; DB 2; Length 374;

Best Local Similarity 99.7%; Pred. No.2.6e-169; Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLAVLTAAPELLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 VKIRLHTLAVLTAAPELLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LYLFLNMGPAFERYPNVTTTAQGTSGAGIAQAAAGTVNIGASDAYISEGMAAHKGL 120
DB 61 LYLFLNMGPAFERYPNVTTTAQGTSGAGIAQAAAGTVNIGASDAYISEGMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPVSEHLKLNKYLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPVSEHLKLNKYLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPPAVGALGENGGMVTGCAR 240
DB 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPPAVGALGENGGMVTGCAR 240
QY 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
DB 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 8

US-08-818-111-148
; Sequence 148, Application US/08818111
; Patent No. 5338852
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yashir A.W.
; APPLICANT: Dillon, Davin C.

APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-818-111-148

Query Match 99.8%; Score 1931; DB 2; Length 374;

Best Local Similarity 99.7%; Pred. No.2.6e-169; Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLAVLTAAPELLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 VKIRLHTLAVLTAAPELLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LYLFLNMGPAFERYPNVTTTAQGTSGAGIAQAAAGTVNIGASDAYISEGMAAHKGL 120
DB 61 LYLFLNMGPAFERYPNVTTTAQGTSGAGIAQAAAGTVNIGASDAYISEGMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPVSEHLKLNKYLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPVSEHLKLNKYLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPPAVGALGENGGMVTGCAR 240
DB 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPPAVGALGENGGMVTGCAR 240
QY 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
DB 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 9

US-09-056-556-153
; Sequence 153, Application US/09056556

Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-056-556-153

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
DB 1 VKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
QY 61 LVPLEFLMGPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASPAYISEGMAAHKGL 120
DB 61 LVPLEFLMGPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASPAYISEGMAAHKGL 120
QY 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVGALGNGMGMTGCAB 240
DB 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVGALGNGMGMTGCAB 240
QY 241 TRGCVAVYIGISFLDQASQRLGEAQLGNSGNFLPDAOSIOAAAAGFASKTPANQAISM 300
DB 241 TRGCVAVYIGISFLDQASQRLGEAQLGNSGNFLPDAOSIOAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPFA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPFA 360
QY 361 VVKLSDALIAITISS 374
DB 361 VVKLSDALIAITISS 374

RESULT 10
US-09-072-596-148

Sequence 148, Application US/09072596
Patent No. 6458365
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Iodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-596-148

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
DB 1 VKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
QY 61 LVPLEFLMGPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASPAYISEGMAAHKGL 120
DB 61 LVPLEFLMGPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASPAYISEGMAAHKGL 120
QY 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVGALGNGMGMTGCAB 240
DB 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVGALGNGMGMTGCAB 240
QY 241 TRGCVAVYIGISFLDQASQRLGEAQLGNSGNFLPDAOSIOAAAAGFASKTPANQAISM 300
DB 241 TRGCVAVYIGISFLDQASQRLGEAQLGNSGNFLPDAOSIOAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPFA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPFA 360

QY 361 VKLSDALIATISS 374
Db 361 VKLSDALIATISS 374

RESULT 11
US-09-072-967-153
Sequence 153, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-967-153

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
Db 1 VKRRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LVPFLFMGPAPFAFERIPNVTITTAQGTSGAGIAQAAGTVNIGASDAIYSEGMMAHKGL 120
Db 61 LVPFLFMGPAPFAFERIPNVTITTAQGTSGAGIAQAAGTVNIGASDAIYSEGMMAHKGL 120
QY 121 MNIALAISAOQVYNNIPGVSEHLKLNKGVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVYNNIPGVSEHLKLNKGVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPIHRSDGSGDTLFTQYLSKODPEGWGSRGFGTTVDPPAVGALGENNGGMTGCAE 240
Db 181 VPIHRSDGSGDTLFTQYLSKODPEGWGSRGFGTTVDPPAVGALGENNGGMTGCAE 240

QY 241 TPGCAVYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIOAAAAGFASKTPANOALISM 300
Db 241 TPGCAVYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIOAAAAGFASKTPANOALISM 300
QY 301 IDGPAPDGYPIINVEYAIVNNRQKDAATAGTLQAFILMAITTDNKKASFLQVHFQPLPPA 360
Db 301 IDGPAPDGYPIINVEYAIVNNRQKDAATAGTLQAFILMAITTDNKKASFLQVHFQPLPPA 360

QY 361 VKLSDALIATISS 374
Db 361 VKLSDALIATISS 374

RESULT 12
US-09-287-849-6
Sequence 6, Application US/09287849
Patent No. 6627198
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
TITLE OF INVENTION: and Their Uses
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287,849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 6
LENGTH: 374
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: tri-fusion
US-09-287-849-6

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
Db 1 VKRRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LVPFLFMGPAPFAFERIPNVTITTAQGTSGAGIAQAAGTVNIGASDAIYSEGMMAHKGL 120
Db 61 LVPFLFMGPAPFAFERIPNVTITTAQGTSGAGIAQAAGTVNIGASDAIYSEGMMAHKGL 120
QY 121 MNIALAISAOQVYNNIPGVSEHLKLNKGVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVYNNIPGVSEHLKLNKGVLAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPIHRSDGSGDTLFTQYLSKODPEGWGSRGFGTTVDPPAVGALGENNGGMTGCAE 240
Db 181 VPIHRSDGSGDTLFTQYLSKODPEGWGSRGFGTTVDPPAVGALGENNGGMTGCAE 240
QY 241 TPGCAVYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIOAAAAGFASKTPANOALISM 300
Db 241 TPGCAVYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIOAAAAGFASKTPANOALISM 300

QY 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
DB 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 13
US-10-193-002-148
; Sequence 148, Application US/10193002
; Patent No. 6949246
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-10-193-002-148

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRIHTLAAVLTAAPIILAAAGCGKPPGSGPBTGAGTVAITTPASSPVTLAETGSL 60
DB 1 VKIRHTLAAVLTAAPIILAAAGCGSKPPGSGPBTGAGTVAITTPASSPVTLAETGSL 60
QY 61 LYPFLNMGAFHERYPNVTTITAGTSGAGIAQAAGTWNIGASDAVYISEGMAAHKGL 120
DB 61 LYPFLNMGAFHERYPNVTTITAGTSGAGIAQAAGTWNIGASDAVYISEGMAAHKGL 120

QY 121 MNIALAISAOQVNVNLPGVSEHLKINGKVLAAWYOGTITKMPDPOIALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVNVNLPGVSEHLKINGKVLAAWYOGTITKMPDPOIALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPFGTTVDPEPAVGAIGENGGMVTGCAC 240
DB 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPFGTTVDPEPAVGAIGENGGMVTGCAC 240
QY 241 TPGCAVYIGISFLDQASQRIQAGLQGNSSGNFLLPDAQSIQAAAAGFASKTPANQISM 300
DB 241 TPGCAVYIGISFLDQASQRIQAGLQGNSSGNFLLPDAQSIQAAAAGFASKTPANQISM 300
QY 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
DB 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 14
US-10-084-843-153
; Sequence 153, Application US/10084843
; Patent No. 6962710
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 153:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 153:
US-10-084-843-153

Query Match	99.8%	Score 1931;	DB 2;	Length 374;
Best Local Similarity	99.7%	Pred. No. 2.6e-169;		
Matches 373; Conservative	1;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	MKRIKHTLTLAIVTAAFLILAAAGCCSKPPSSGPEFTGAGAGVATTPASSPVLTAETGSL	60
		:	
Db	1	VKRIKHTLTLAIVLAAAPLLILAAAGCCSKPPSSGPEFTGAGAGVATTPASSPVLTAETGSL	60
QY	61	LYLPLENMGPAFHERYPNTVITTAOGTSGAGCIAQAAAGTVNIGASDAYISEGDMAAHKGL	120
Db	61	LYLPLENMGPAFHERYPNTVITTAOGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGL	120
QY	121	MNIALAISAOQVNNYLPGVSEHLKNGXYLAAMYOGTITKTMDDPOLAALNPGVNLPGTAV	180
Db	121	MNIALAISAOQVNNYLPGVSEHLKNGXYLAAMYOGTITKTMDDPOLAALNPGVNLPGTAV	180
QY	181	VPIHRSDSGDPFLFTFOYLSKODPEBGMGSPGFTGTVDPFPAVPGLGNGNGMGVTCGAE	240
Db	181	VPIHRSDSGDFTFLFTFOYLSKODPEBGMGSPGFTGTVDPFPAVPGLGNGNGMGVTCGAE	240
QY	241	TPBCCAVYIGISFLDQASQRLGEAOLGNSSGNFLLPDQOSIQAAAAGFASKTPANQAISM	300
Db	241	TPBCCAVYIGISFLDQASQRLGEAOLGNSSGNFLLPDQOSIQAAAAGFASKTPANQAISM	300
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RESULT 15
US-09-118-426-5
/ Sequence 5, Application US/09118426C
/ Patent No. 6517839
/ GENERAL INFORMATION:
/ APPLICANT: Modlin, Robert L.
/ APPLICANT: Libraty, Daniel H.
/ TITLE OF INVENTION: METHODS FOR INDUCING INTERLEUKIN-12 AND A TYPE 1/TH1
/ TITLE OF INVENTION: T-CELL RESPONSE
/ FILE REFERENCE: 30435.4US01
/ CURRENT APPLICATION NUMBER: US/09/118.426C
/ CURRENT FILING DATE: 1998-07-17
/ EARLIER APPLICATION NUMBER: 60/052,970
/ EARLIER FILING DATE: 1998-07-17
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 373
/ TYPE: PR1
/ ORGANISM: Mycobacterium tuberculosis
/ PUBLICATION INFORMATION:
/ JOURNAL: Infect. Immun.
/ VOLUME: 57
/ ISSUE: 8
/ PAGES: 2481-
/ DATE: 1989
/ US-09-118-426-5

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Query Match	99.3%	Score 1920.5;	DB 2;	Length 373;
Best Local Similarity	99.7%;	Pred. No. 2.4e-168;		
Matches 373; Conservative	0;	Mismatches 0;	Indels 1;	Gaps 1;

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Db	1 MKRLRLLTAAVL-APFLILAAACCKSPSSGPETGAAGVATTTPASSPTTLAEKSTL	59
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Qy	122	NNIATAISAOQVNVNLPGESEHLKUNGKVLAAMTQGTITKWDDEPQIALNPGVNLPGTAV	180
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Qy	181	VPLHRSDSGDTFTLTQYLSKODPEGKWSKPGFTTVDPAVPALCBNGNGMWTGCAE	240
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Qy	241	TPGCVAYIGISFLDQASORGGEAOLGNSGNNFLPPAOSTQAAAAGPASKTPANQAIISM	300
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Qy	361	VVKLSDALIATITSS	374
	360	VVKLSDALIATITSS	373

Search completed: February 3, 2006, 17:02:24
Job time : 28.1585 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 86.6585 Seconds
(without alignments)
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Title: US-09-688-672a-8
Perfect score: 1935
Sequence: 1 MKIRLHTLLAVTLTAAPLLA.....QPLPFAVVKLSDALITATISS 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:*

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- 2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1935	100.0	374	3	US-09-287-849-40	Sequence 40, App1
2	1935	100.0	374	3	US-09-886-349A-39	Sequence 39, App1
3	1935	100.0	374	4	US-10-193-002-150	Sequence 150, App1
4	1935	100.0	374	4	US-10-084-843-155	Sequence 155, App1
5	1935	100.0	374	4	US-10-359-460-40	Sequence 40, App1
6	1935	100.0	374	4	US-10-098-732A-39	Sequence 39, App1
7	1935	100.0	374	6	US-11-028-898-155	Sequence 155, App1
8	1935	100.0	374	6	US-11-082-005-150	Sequence 150, App1
9	1931	99.8	374	4	US-09-287-849-6	Sequence 6, App1
10	1931	99.8	374	4	US-10-193-002-148	Sequence 148, App1
11	1931	99.8	374	4	US-10-084-843-153	Sequence 153, App1
12	1931	99.8	374	4	US-10-359-460-6	Sequence 6, App1
13	1931	99.8	374	4	US-10-332-512A-5	Sequence 5, App1
14	1931	99.8	374	6	US-11-028-898-153	Sequence 153, App1
15	1931	99.8	374	6	US-11-082-005-148	Sequence 148, App1
16	1821.5	94.1	802	3	US-09-287-849-10	Sequence 10, App1
17	1821.5	94.1	802	4	US-10-193-002-209	Sequence 209, App1
18	1821.5	94.1	802	4	US-10-193-002-346	Sequence 346, App1
19	1821.5	94.1	802	4	US-10-084-843-214	Sequence 214, App1
20	1821.5	94.1	802	4	US-10-084-843-351	Sequence 351, App1
21	1821.5	94.1	802	4	US-10-359-460-10	Sequence 10, App1
22	1821.5	94.1	802	6	US-11-028-898-214	Sequence 214, App1
23	1821.5	94.1	802	6	US-11-028-898-351	Sequence 351, App1
24	1821.5	94.1	802	6	US-11-082-005-209	Sequence 209, App1
25	1821.5	94.1	802	6	US-11-082-005-346	Sequence 346, App1
26	1820	94.1	652	4	US-10-193-002-350	Sequence 350, App1
27	1820	94.1	652	4	US-10-084-843-355	Sequence 355, App1

28	1820	94.1	652	6	US-11-028-898-355	Sequence 355, App1
29	1820	94.1	652	6	US-11-082-005-350	Sequence 350, App1
30	418	21.6	346	3	US-09-741-669-380	Sequence 380, App1
31	346.5	17.9	364	4	US-10-193-002-74	Sequence 74, App1
32	346.5	17.9	364	4	US-10-084-843-73	Sequence 73, App1
33	346.5	17.9	364	6	US-11-028-898-73	Sequence 73, App1
34	346.5	17.9	364	6	US-11-082-005-74	Sequence 74, App1
35	322.5	16.7	368	4	US-10-156-761-11606	Sequence 11606, A
36	285	14.7	375	3	US-09-738-626-6333	Sequence 6333, App1
37	285	14.7	375	5	US-10-721-922A-306	Sequence 306, App1
38	229.5	11.9	278	5	US-10-721-922A-308	Sequence 308, App1
39	196	10.1	481	5	US-10-450-763-59914	Sequence 59914, A
40	184.5	9.5	642	5	US-10-450-763-59913	Sequence 59913, A
41	176.5	9.1	292	5	US-10-472-928-2840	Sequence 2840, App1
42	176.5	9.1	292	5	US-10-617-320-4340	Sequence 4340, App1
43	170	8.8	288	5	US-10-474-792-164	Sequence 164, App1
44	164.5	8.5	288	5	US-10-650-274-165	Sequence 165, App1
45	157	8.1	284	3	US-09-071-035-138	Sequence 138, App1

ALIGNMENTS

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RESULT 1
US-09-287-849-40
; Sequence 40, Application US/09287849
; Patent No. US20020009459A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yaasi A.W.
; APPLICANT: Dillion, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation.
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: and their Uses
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287,849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: 38 kd antigen
; US-09-287-849-40

Query Match 100.0%; Score 1935; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 2
US-09-686-349A-39
; Sequence 39, Application US/09886349A
; Publication No. US20040086523A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Reed, Steven
; APPLICANT: Alderson, Mark
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
; FILE REFERENCE: 014058-009070US
; CURRENT APPLICATION NUMBER: US/09/886,349A
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 09/597,796
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 60/265,737
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: 38 kd
US-09-686-349A-39

Query Match 100.0%; Score 1935; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 361 VVKLSDALIATISS 374

RESULT 3
US-10-193-002-150
; Sequence 150, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/193, 002
; FILING DATE: 10-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 150:
US-10-193-002-150

Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 LYLPLNLMGPAFHERYPNVTTTAQGTSGAGIAQAAAGTVNIGASDAIYLSGDMAAHKGL 120
Db 61 LYLPLNLMGPAFHERYPNVTTTAQGTSGAGIAQAAAGTVNIGASDAIYLSGDMAAHKGL 120
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RESULT 4
US-10-084-843-155
; Sequence 155, Application US/10084843
; Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Twardzik, Thomas S.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: AND DIAGNOSIS AND METHODS FOR IMMUNOTHERAPY
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 155:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 155:
US-10-084-843-155

Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGACTVATTASSPVTLAETGSTL 60
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Db 61 LYLFLNLMGPFAFERIPNVTITTAQGTGSGAGIQAAGTVNTIGASDAVYISEGMAAHKGL 120
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Db 121 MNIALAISAOQVYNNPGVSEHLKLNKVTAAAYOGTIKTDDPOLAALPGVNLPGTAV 180
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Db 361 VVKLSDALIATISS 374

RESULT 5
US-10-359-460-40
; Sequence 40, Application US/10359460
; Publication No. US20030147911A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/10/359,460
FILING DATE: 2003-02-05
PRIOR APPLICATION NUMBER: US/09/287,849
PRIOR FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patent in Ver. 2.1
SEQ ID NO 40
LENGTH: 374
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: 38 kD antigen
US-10-359-460-40

Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 121 MNIALAISAOQVNNYLPVSEHLKNGKYLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
Qy 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPGALGENGGMVTGCAB 240
Db 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPGALGENGGMVTGCAB 240
Qy 241 TPGCAVYIGISFLDQASORGLEAOLGNSGNFLPDQOSIOAAAAGFASKTPANQAISM 300
Db 241 TPGCAVYIGISFLDQASORGLEAOLGNSGNFLPDQOSIOAAAAGFASKTPANQAISM 300
Qy 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFLHMAITDGNKASFLDOVHFOPLPPA 360
Db 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFLHMAITDGNKASFLDOVHFOPLPPA 360
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Db 361 VKLSDALITATISS 374
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RESULT 6
US-10-098-732A-39
; Sequence 39, Application US/10098732A
; Publication No. US20030175294A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Brannon, Mark
; APPLICANT: Gudarian, Jeffrey
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
; TITLE OF INVENTION: Leishmania Antigen
; FILE REFERENCE: 014058-012010US
; CURRENT APPLICATION NUMBER: US/10/098, 732A
; PRIOR FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: US 60/275, 837
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 39
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: 38 KD
; US-10-098-732A-39

Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTTPASSPVTTLAETGRTL 60
Db 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTTPASSPVTTLAETGRTL 60
Qy 61 LYPFLNMGPAHERPENTTTTAOGTSGAGIAQAAGVNNIGASPAYISEGMAAHKGL 120
Db 61 LYPFLNMGPAHERPENTTTTAOGTSGAGIAQAAGVNNIGASPAYISEGMAAHKGL 120
Qy 121 MNIALAISAOQVNNYLPVSEHLKNGKYLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVNNYLPVSEHLKNGKYLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
Qy 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPGALGENGGMVTGCAB 240
Db 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPGALGENGGMVTGCAB 240
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Qy 241 TPGCAVYIGISFLDQASORGLEAOLGNSGNFLPDQOSIOAAAAGFASKTPANQAISM 300
Db 241 TPGCAVYIGISFLDQASORGLEAOLGNSGNFLPDQOSIOAAAAGFASKTPANQAISM 300
Qy 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFLHMAITDGNKASFLDOVHFOPLPPA 360
Db 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFLHMAITDGNKASFLDOVHFOPLPPA 360
Qy 361 VKLSDALITATISS 374
Db 361 VKLSDALITATISS 374
```

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RESULT 7
US-11-028-898-155
; Sequence 155, Application US/11028898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Iodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/028, 898
; FILING DATE: 03-Jan-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/084, 843
; FILING DATE: 03-Jan-2005
; APPLICATION NUMBER: US/09/072, 967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Waki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 155:
; US-11-028-898-155

Query Match 100.0%; Score 1935; DB 6; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTTPASSPVTTLAETGRTL 60
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|||||
Db 1 MKIRLHTLAVLTAAPLLAAAGCGSPGSGSPETGAGTVAITTPASSPVTLAETG STL 60
QY 61 LYLFLNLMGPAFERYPNTTITTAQGTSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
Db 61 LYLFLNLMGPAFERYPNTTITTAQGTSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
QY 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVGALGENNGCMVTCAB 240
Db 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVGALGENNGCMVTCAB 240
QY 241 TPCCVAYIGISFLDQASORGLGEAOLGNSSGNFLPDAOSIQAAAAGFASKTPANOISM 300
Db 241 TPCCVAYIGISFLDQASORGLGEAOLGNSSGNFLPDAOSIQAAAAGFASKTPANOISM 300
QY 301 IDGPADGYPPIINVEYAIVNNRQKDAATAQTQAFLHMAITTDGNKASFLDQVHFQPLPPA 360
Db 301 IDGPADGYPPIINVEYAIVNNRQKDAATAQTQAFLHMAITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 8
US-11-082-005-150
; Sequence 150, Application US/11082005
; Publication No. US20050181419A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedrick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/11/082.005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193.002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072.596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

;; INFORMATION FOR SEQ ID NO: 150:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 374 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <Unknown>
;; TOPOLOGY: linear
;; SEQUENCE DESCRIPTION: SEQ ID NO: 150:
US-11-082-005-150
Query Match 100.0%; Score 1935; DB 6; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKIRLHTLAVLTAAPLLAAAGCGSPGSGSPETGAGTVAITTPASSPVTLAETG STL 60
Db 1 MKIRLHTLAVLTAAPLLAAAGCGSPGSGSPETGAGTVAITTPASSPVTLAETG STL 60
QY 61 LYLFLNLMGPAFERYPNTTITTAQGTSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
Db 61 LYLFLNLMGPAFERYPNTTITTAQGTSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
QY 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVGALGENNGCMVTCAB 240
Db 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVGALGENNGCMVTCAB 240
QY 241 TPCCVAYIGISFLDQASORGLGEAOLGNSSGNFLPDAOSIQAAAAGFASKTPANOISM 300
Db 241 TPCCVAYIGISFLDQASORGLGEAOLGNSSGNFLPDAOSIQAAAAGFASKTPANOISM 300
QY 301 IDGPADGYPPIINVEYAIVNNRQKDAATAQTQAFLHMAITTDGNKASFLDQVHFQPLPPA 360
Db 301 IDGPADGYPPIINVEYAIVNNRQKDAATAQTQAFLHMAITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 9
US-09-287-849-6
; Sequence 6, Application US/09287849
; Patent No. US20020009459A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287.849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818.112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942.578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025.197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056.556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223.040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 374
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: tri-fusion
US-09-287-849-6

Query Match 99.8%; Score 1931; DB 3; Length 374;

Best Local Similarity 99.7%; Pred. No. 3.8e-150; Mismatches 0; Indels 0; Gaps 0;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
1 VKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LYPFLNMGPAFHERYPNVTITTAOGTSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120
61 LYPFLNMGPAFHERYPNVTITTAOGTSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120
QY 121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
QY 121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDTLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAE 240
181 VPLHRSDSGDTLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAE 240
QY 241 TPCCVAYIGISFLDQASQRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOALISM 300
241 TPCCVAYIGISFLDQASQRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOALISM 300
QY 301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGKASFLDOVHFOPLPRA 360
301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGKASFLDOVHFOPLPRA 360
QY 361 VVKLSDALIAITISS 374
361 VVKLSDALIAITISS 374
DB

RESULT 10
US-10-193-002-148

Sequence 148, Application US/10193002
Publication No. US20030135026A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, David C.

Campes-Neco, Antonia

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193,002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072,596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 148:

SEQUENCE CHARACTERISTICS:

LENGTH: 374 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 148:

Query Match 99.8%; Score 1931; DB 4; Length 374;
Best Local Similarity 99.7%; Pred. No. 3.8e-150; Mismatches 0; Indels 0; Gaps 0;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
1 VKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LYPFLNMGPAFHERYPNVTITTAOGTSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120
61 LYPFLNMGPAFHERYPNVTITTAOGTSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120
QY 121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
QY 121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDTLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAE 240
181 VPLHRSDSGDTLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAE 240
QY 241 TPCCVAYIGISFLDQASQRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOALISM 300
241 TPCCVAYIGISFLDQASQRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOALISM 300
QY 301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGKASFLDOVHFOPLPRA 360
301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGKASFLDOVHFOPLPRA 360
QY 361 VVKLSDALIAITISS 374
361 VVKLSDALIAITISS 374
DB

RESULT 11
US-10-084-843-153

Sequence 153, Application US/10084843
Publication No. US20030143243A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, David C.

Campes-Neco, Antonia

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA


```

? ZIP: 98104-7092
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC Compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/10/084,843
? FILING DATE: 25-Feb-2002
? CLASSIFICATION: <Unknown>
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US/09/072,967
? FILING DATE: 05-MAY-1998
? ATTORNEY/AGENT INFORMATION:
? NAME: Makl, David J.
? REGISTRATION NUMBER: 31,392
? REFERENCE/DOCKET NUMBER: 210121.411C
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (206) 682-6031
? FAX: (206) 682-6031
? INFORMATION FOR SEQ ID NO: 153:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 374 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? SEQUENCE DESCRIPTION: SEQ ID NO: 153:
US-10-084-843-153

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PRIOR APPLICATION NUMBER: US 60/217,646
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 374
TYPE: prt
ORGANISM: Mycobacterium tuberculosis
US-10-332-512A-5

Query Match 99.8%; Score 1931; DB 4; Length 374;
Best Local Similarity 99.7%; Pred. No.3 8e-150;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 MKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
1 VKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
1 LPLFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGL 120
61 LPLFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGL 120
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGTITKTDPOIAALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGTITKTDPOIAALNPGVNLPGTAV 180
181 VPLHRSDSGDTFLFTQVLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVTGCAE 240
181 VPLHRSDSGDTFLFTQVLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVTGCAE 240
241 TPGCVAYIGISFLDQSGRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
241 TPGCVAYIGISFLDQSGRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
361 VVKLSDALITATISS 374
361 VVKLSDALITATISS 374

RESULT 14
US-11-028-898-153
Sequence 153, Application US/11028898
Publication No. US20050136069A1

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle
STATE: Washington

COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 153:
US-11-028-898-153

Query Match 99.8%; Score 1931; DB 6; Length 374;
Best Local Similarity 99.7%; Pred. No.3 8e-150;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 MKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
1 VKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
1 LPLFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGL 120
61 LPLFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGL 120
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGTITKTDPOIAALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGTITKTDPOIAALNPGVNLPGTAV 180
181 VPLHRSDSGDTFLFTQVLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVTGCAE 240
181 VPLHRSDSGDTFLFTQVLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVTGCAE 240
241 TPGCVAYIGISFLDQSGRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
241 TPGCVAYIGISFLDQSGRLGEAQLGNSGNFLPDQOSIQAAAAGFASKTPANOISM 300
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
361 VVKLSDALITATISS 374
361 VVKLSDALITATISS 374

RESULT 15
US-11-082-005-148
Sequence 148, Application US/11082005
Publication No. US20050181419A1

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio

Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

TUBERCULOSIS

NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4800
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-11-082-005-148

Query Match 99.8%; Score 1931; DB 6; Length 374;
Best Local Similarity 99.7%; Pred. No. 3.8e-150; Indels 0; Gaps 0;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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DB 121 MNIALAISAOVVYNNIPGVSEHLKLNKVTLAAMYOGTIKTWDDPQIALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDPTFLFTQYLSKODPEGWGSGPGFTTVDPPAVPGALGENGGAVTGCAC 240
DB 181 VPLHRSDSGDPTFLFTQYLSKODPEGWGSGPGFTTVDPPAVPGALGENGGAVTGCAC 240
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DB 241 TPGCVAYIGISFLDOASORGLGEAOLGNSSGNFLLPDAQSIQAAAAGFASKTPANOISM 300
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DB 301 IDGPAPDGYPIINVEYAIUNNRKDAATAOTLOAFILHMAITTDGNKASFLDOVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 22.0122 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672A-10

Perfect score: 466

Sequence: 1 TDAATLAQEAQENFRISGDL.....VOYSRADDEQQALSSQWGF 95

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	466	100.0	95	3	US-09-886-349A-35
2	466	100.0	95	4	US-10-193-002-89
3	466	100.0	95	4	US-10-084-843-88
4	466	100.0	95	4	US-10-098-732A-35
5	466	100.0	95	6	US-11-028-898-88
6	466	100.0	95	6	US-11-082-005-89
7	466	100.0	100	4	US-10-080-170-639
8	466	100.0	100	4	US-10-193-002-110
9	466	100.0	100	4	US-10-084-843-115
10	466	100.0	100	4	US-10-080-170-639
11	466	100.0	100	4	US-10-468-356-639
12	466	100.0	100	5	US-10-520-084-37
13	466	100.0	100	5	US-10-510-021-64
14	466	100.0	100	6	US-11-028-898-115
15	466	100.0	100	6	US-11-082-005-110
16	466	100.0	358	3	US-09-287-849-8
17	466	100.0	358	3	US-10-359-460-8
18	466	100.0	802	4	US-09-287-849-10
19	466	100.0	802	4	US-10-193-002-209
20	466	100.0	802	4	US-10-193-002-346
21	466	100.0	802	4	US-10-084-843-214
22	466	100.0	802	4	US-10-084-843-351
23	466	100.0	802	4	US-10-359-460-10
24	466	100.0	802	6	US-11-028-898-214
25	466	100.0	802	6	US-11-028-898-351
26	466	100.0	802	6	US-11-082-005-209
27	466	100.0	802	6	US-11-082-005-346

28	462	99.1	100	4	US-10-140-045-5	Sequence 5, Appli
29	392	84.1	80	4	US-10-193-002-112	Sequence 112, App
30	392	84.1	80	4	US-10-084-843-117	Sequence 117, App
31	392	84.1	80	6	US-11-028-898-117	Sequence 117, App
32	392	84.1	80	6	US-11-082-005-112	Sequence 112, App
33	217	46.6	49	4	US-10-140-045-6	Sequence 6, Appli
34	205	44.0	42	4	US-10-140-045-7	Sequence 7, Appli
35	173	37.1	100	4	US-10-140-045-28	Sequence 28, Appli
36	173	37.1	100	4	US-10-080-170-12	Sequence 12, Appli
37	173	37.1	100	4	US-10-080-170-12	Sequence 12, Appli
38	173	37.1	100	4	US-10-468-356-12	Sequence 12, Appli
39	137	29.4	28	4	US-10-140-045-12	Sequence 12, Appli
40	122	26.2	28	4	US-10-084-843-98	Sequence 98, Appli
41	122	26.2	28	6	US-11-028-898-98	Sequence 98, Appli
42	121	26.0	27	4	US-10-084-843-96	Sequence 96, Appli
43	121	26.0	27	6	US-11-028-898-96	Sequence 96, Appli
44	118	25.3	27	4	US-10-084-843-95	Sequence 95, Appli
45	118	25.3	27	4	US-10-084-843-97	Sequence 97, Appli

ALIGNMENTS

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RESULT 1
US-09-886-349A-35
; Sequence 35, Application US/09886349A
; Publication No. US20040086523A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Reed, Steven
; APPLICANT: Alderson, Mark
; APPLICANT: Corixa Corporation
; TITLE OR INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
; FILE REFERENCE: 014058-009070US
; CURRENT APPLICATION NUMBER: US/09/886.349A
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 09/597,796
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 60/265,737
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: TB38-1 or 38-1 (MTB11)
US-09-886-349A-35

Query Match      100.0%; Score 466; DB 3; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-10-193-002-89
; Sequence 89, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
```

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1      Vedvick, Thomas S.
2      Twardzik, Daniel R.
3      Lodes, Michael J.
4      Hendrickson, Ronald C.
5      TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
6      TUBERCULOSIS
7      NUMBER OF SEQUENCES: 350
8      CORRESPONDENCE ADDRESS:
9      ADDRESSEE: SEED and BERRY LLP
10     STREET: 6300 Columbia Center, 701 Fifth Avenue
11     CITY: Seattle
12     STATE: Washington
13     COUNTRY: USA
14     ZIP: 98104-7092
15     COMPUTER READABLE FORM:
16     MEDIUM TYPE: Floppy disk
17     COMPUTER: IBM PC compatible
18     OPERATING SYSTEM: PC-DOS/MS-DOS
19     SOFTWARE: Patent In Release #1.0, Version #1.30
20     CURRENT APPLICATION DATA:
21     APPLICATION NUMBER: US/10/193,002
22     FILING DATE: 10-Jul-2002
23     CLASSIFICATION: <Unknown>
24     PRIOR APPLICATION DATA:
25     APPLICATION NUMBER: US/09/072,596
26     FILING DATE: 05-MAY-1998
27     ATTORNEY/AGENT INFORMATION:
28     NAME: Makl, David J.
29     REGISTRATION NUMBER: 31,392
30     REFERENCE/DOCKET NUMBER: 210121.417C9
31     TELECOMMUNICATION INFORMATION:
32     TELEPHONE: (206) 622-4900
33     TELEFAX: (206) 682-6031
34     INFORMATION FOR SEQ ID NO: 89:
35     SEQUENCE CHARACTERISTICS:
36     LENGTH: 95 amino acids
37     TYPE: amino acid
38     STRANDEDNESS: single
39     TOPOLOGY: linear
40     SEQUENCE DESCRIPTION: SEQ ID NO: 89:
41     US-10-193-002-89
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43     Query Match      100.0%; Score 466; DB 4; Length 95;
44     Best Local Similarity 100.0%; Pred. No. 6.7e-42;
45     Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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51     DB      61 KOELDEISTNIRQAGVQYRSRADEEQOALSSQMGF 95
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53     RESULT 3
54     US-10-084-843-88
55     Sequence 88, Application US/10084843
56     Publication No. US20030143243A1
57     GENERAL INFORMATION:
58     APPLICANT: Reed, Steven G.
59     Skeiky, Yasir A.W.
60     Dillon, Davin C.
61     Campos-Neto, Antonio
62     Houghton, Raymond
63     Vedvick, Thomas S.
64     Twardzik, Daniel R.
65     Lodes, Michael J.
66     Hendrickson, Ronald C.
67     TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
68     NUMBER OF SEQUENCES: 355
69     CORRESPONDENCE ADDRESS:
70

```

```

1 ADDRESS: SEED and BERRY LLP
2 STREET: 6300 Columbia Center, 701 Fifth Avenue
3 City: Seattle
4 STATE: Washington
5 COUNTRY: USA
6 ZIP: 98104-7092
7
8 COMPUTER READABLE FORM:
9 MEDIUM TYPE: floppy disk
10 COMPUTER: IBM PC compatible
11 OPERATING SYSTEM: PC-DOS/MS-DOS
12 SOFTWARE: Patentin Release #1.0, Version #1.30
13
14 CURRENT APPLICATION DATA:
15 APPLICATION NUMBER: US/10/084,843
16 FILING DATE: 25-Feb-2002
17 CLASSIFICATION: <Unknown>
18
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: US/09/072,967
21 FILING DATE: 05-MAY-1998
22
23 ATTORNEY/AGENT INFORMATION:
24 NAME: Makl, David J.
25 REGISTRATION NUMBER: 31,392
26 REFERENCE/DOCKET NUMBER: 210121.411C9
27
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE: (206) 622-4900
30 TELEFAX: (206) 682-6031
31
32 INFORMATION FOR SEQ ID NO: 88:
33 SEQUENCE CHARACTERISTICS:
34 LENGTH: 95 amino acids
35 TYPE: amino acid
36 STRANDEDNESS: single
37 TOPOLOGY: linear
38
39 SEQUENCE DESCRIPTION: SEQ ID NO: 88:
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41 US-10-084-843-88
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45 Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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47 QY 1 TDAATLQGEAGNFERISGDLKTQIDQVESTAGSLQGGMRGAAGTAAQAAVVRFOEAANKQ 60
48 Db 1 TDAATLQGEAGNFERISGDLKTQIDQVESTAGSLQGGMRGAAGTAAQAAVVRFOEAANKQ 60
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50 QY 61 KOELDEISTNIRQAGVQYSPRADEBQOALSSQMGF 95
51 Db 61 KOELDEISTNIRQAGVQYSPRADEBQOALSSQMGF 95
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53 RESULT 4
54 US-10-098-732A-35
55 : Sequence 35, Application US/10098732A
56 : Publication No. US20030175294A1
57 : GENERAL INFORMATION:
58 : APPLICANT: Skeiky, Yasir
59 : APPLICANT: Brannon, Mark
60 : APPLICANT: Guderman, Jeffrey
61 : APPLICANT: Corixa Corporation
62 : TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
63 : TITLE OF INVENTION: Leishmania Antigen
64 : FILE REFERENCE: 014058-012010US
65 : CURRENT APPLICATION NUMBER: US/10/098,732A
66 : CURRENT FILING DATE: 2003-04-29
67 : PRIOR APPLICATION NUMBER: US 60/275,837
68 : PRIOR FILING DATE: 2001-03-13
69 : NUMBER OF SEQ ID NOS: 80
70 : SOFTWARE: Patentin Ver. 2.1
71 : SEQ ID NO 35
72 : LENGTH: 95
73 : TYPE: PRT
74 : ORGANISM: Mycobacterium tuberculosis
75 : FEATURES:
76 : OTHER INFORMATION: Tb38-1 or 38-1 (MTB11)
77 : US-10-098-732A-35

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Query Match 100.0%; Score 466; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEANKQ 60

Qy 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 5
US-11-028-898-88
Sequence 88, Application US/11028898
Publication No. US20050136069A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 88:

US-11-028-898-88

Query Match 100.0%; Score 466; DB 6; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEANKQ 60
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Db 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 6
US-11-082-005-89
Sequence 89, Application US/11082005
Publication No. US2005018419A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 89:

US-11-082-005-89

Query Match 100.0%; Score 466; DB 6; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEANKQ 60

Qy 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 7
US-10-080-170-639
; Sequence 639, Application US/10080170
; Publication No. US20030129601A1
; GENERAL INFORMATION:
; APPLICANT: COLE, S.T.
; TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
; TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
; TITLE OF INVENTION: TREATMENT OF MYCOBACTERIOSES
; FILE REFERENCE: 03495.0218
; CURRENT APPLICATION NUMBER: US/10/080,170
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/270,123
; PRIOR FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 652
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO: 639
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-080-170-639

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 60
DB 6 TDAATLAQEAENFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

RESULT 8
US-10-193-002-110
; Sequence 110, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 110:
US-10-193-002-110

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 60
DB 6 TDAATLAQEAENFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

RESULT 9
US-10-084-843-115
; Sequence 115, Application US/10084843
; Publication No. US20030143243A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 115:
; SEQUENCE CHARACTERISTICS:

LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 115:
US-10-084-843-115

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 60
DB 6 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 10
US-10-080-170-639
Sequence 639, Application US/10080170
Publication No. US20040121322A9
GENERAL INFORMATION:
APPLICANT: COLE, S.T.
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TITLE OF INVENTION: TREATMENT OF MYCOBACTERIOSES
FILE REFERENCE: 03495.0218
CURRENT APPLICATION NUMBER: US/10/080.170
CURRENT FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 652
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 639
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-080-170-639

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 60
DB 6 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 11
US-10-468-356-639
Sequence 639, Application US/10468356
Publication No. US20040197896A1
GENERAL INFORMATION:
APPLICANT: COLE, STEWART
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TITLE OF INVENTION: TREATMENT OF MYCOBACTERIOSES
FILE REFERENCE: 05394.0019
CURRENT APPLICATION NUMBER: US/10/468.356
CURRENT FILING DATE: 2003-08-19
PRIOR APPLICATION NUMBER: 10/080,170
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 655
SOFTWARE: PatentIn Ver. 3.2

SEQ ID NO 639
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-468-356-639

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 60
DB 6 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 12
US-10-520-084-37
Sequence 37, Application US/10520084
Publication No. US20050208594A1
GENERAL INFORMATION:
APPLICANT: Ajit LALVANI
APPLICANT: Katie EWER
TITLE OF INVENTION: ISIS INNOVATION LIMITED
TITLE OF INVENTION: DIAGNOSTICS METHOD
FILE REFERENCE: 3772-22 / N. 86130A JCI
CURRENT APPLICATION NUMBER: US/10/520.084
CURRENT FILING DATE: 2005-01-05
PRIOR APPLICATION NUMBER: PCT/GB03/002936
PRIOR FILING DATE: 2003-07-07
PRIOR APPLICATION NUMBER: GB 0215710.5
PRIOR FILING DATE: 2002-07-05
NUMBER OF SEQ ID NOS: 37
SOFTWARE: PatentIn version 3.1
SEQ ID NO 37
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-520-084-37

Query Match 100.0%; Score 466; DB 5; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 60
DB 6 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAAKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 13
US-10-510-021-64
Sequence 64, Application US/10510021
Publication No. US20050220811A1
GENERAL INFORMATION:
APPLICANT: Cole, Stewart
APPLICANT: Pym, Alexander S
APPLICANT: Brosch, Roland
APPLICANT: Brodin, Priecille
APPLICANT: Majlessi, Laleh
APPLICANT: Demangel, Caroline
APPLICANT: Leclerc, Claude
TITLE OF INVENTION: Identification of virulence associated regions RDI and
TITLE OF INVENTION: RDS leading to improve vaccine of M. bovis BCG and M.
FILE REFERENCE: D20217
CURRENT APPLICATION NUMBER: US/10/510.021

;; CURRENT FILING DATE: 2004-10-01
;; PRIOR APPLICATION NUMBER: PCT/IB03/01789
;; PRIOR FILING DATE: 2003-04-01
;; PRIOR APPLICATION NUMBER: EP 02/290864
;; PRIOR FILING DATE: 2002-04-05
;; NUMBER OF SEQ ID NOS: 75
;; SOFTWARE: Patentin Ver. 2.1
;; SEQ ID NO 64
;; LENGTH: 100
;; TYPE: PRT
;; ORGANISM: Mycobacterium tuberculosis
;; FEATURE:
;; OTHER INFORMATION: Rv3874-esxb - 10kDa culture filtrate antigen CFP10
US-10-510-021-64

Query Match 100.0%; Score 466; DB 5; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEANKQ 60
DB 6 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEANKQ 65
KQELDEISTNIRQAGVQVSRADEEQOALSSQMGF 95
KQELDEISTNIRQAGVQVSRADEEQOALSSQMGF 100

RESULT 14
US-11-028-898-115
;; Sequence 115, Application US/11028898
;; Publication No. US20050136069A1
;; GENERAL INFORMATION:
;; APPLICANT: Reed, Steven G.
;; Skelky, Yasir A.W.
;; Dillon, Davin C.
;; Campos-Neto, Antonio
;; Houghton, Raymond
;; Vedvick, Thomas S.
;; Twardzik, Daniel R.
;; Lodes, Michael J.
;; Hendrickson, Ronald C.
;; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
;; AND DIAGNOSIS OF TUBERCULOSIS
;; NUMBER OF SEQUENCES: 355
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: SEED and BERRY LLP
;; STREET: 6300 Columbia Center, 701 Fifth Avenue
;; CITY: Seattle
;; STATE: Washington
;; COUNTRY: USA
;; ZIP: 98104-7092
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/11/028,898
;; FILING DATE: 03-Jan-2005
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/10/084,843
;; FILING DATE: 03-Jan-2005
;; APPLICATION NUMBER: US/09/072,967
;; FILING DATE: 05-MAY-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Maki, David J.
;; REGISTRATION NUMBER: 31,392
;; REFERENCE/DOCKET NUMBER: 210121.411C9
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (206) 622-4900
;; TELEFAX: (206) 682-6031

;; INFORMATION FOR SEQ ID NO: 115:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 100 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <Unknown>
;; TOPOLOGY: linear
;; SEQUENCE DESCRIPTION: SEQ ID NO: 115:
US-11-028-898-115

Query Match 100.0%; Score 466; DB 6; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEANKQ 60
DB 6 TDAATTAQEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEANKQ 65
KQELDEISTNIRQAGVQVSRADEEQOALSSQMGF 95
KQELDEISTNIRQAGVQVSRADEEQOALSSQMGF 100

RESULT 15
US-11-082-005-110
;; Sequence 110, Application US/11082005
;; Publication No. US20050181419A1
;; GENERAL INFORMATION:
;; APPLICANT: Reed, Steven G.
;; Skelky, Yasir A.W.
;; Dillon, Davin C.
;; Campos-Neto, Antonia
;; Houghton, Raymond
;; Vedvick, Thomas S.
;; Twardzik, Daniel R.
;; Lodes, Michael J.
;; Hendrickson, Ronald C.
;; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
;; TUBERCULOSIS
;; NUMBER OF SEQUENCES: 350
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: SEED and BERRY LLP
;; STREET: 6300 Columbia Center, 701 Fifth Avenue
;; CITY: Seattle
;; STATE: Washington
;; COUNTRY: USA
;; ZIP: 98104-7092
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/11/082,005
;; FILING DATE: 15-Mar-2005
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/10/193,002
;; FILING DATE: 10-Jul-2002
;; APPLICATION NUMBER: US/09/072,596
;; FILING DATE: 05-MAY-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Maki, David J.
;; REGISTRATION NUMBER: 31,392
;; REFERENCE/DOCKET NUMBER: 210121.417C9
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (206) 622-4900
;; TELEFAX: (206) 682-6031
;; INFORMATION FOR SEQ ID NO: 110:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 100 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <Unknown>
;; TOPOLOGY: linear

Tue Feb 7 09:21:17 2006

us-09-688-672a-10.rapbm

Page 7

SEQUENCE	DESCRIPTION:	SEQ ID NO:	110:
US-11-082-005-110			

Query Match	100.0%;	Score 466;	DB 6;	Length 100;
Best Local Similarity	100.0%;	Pred. No. 7.1e-42;		
Matches 95;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1	TDATTAQAQNGNFERISGDLKQTIDQVSTASGLSQOMGAAGTAAQAQVAVFQEAANQ	60
Db	6	TDATTAQAQNGNFERISGDLKQTIDQVSTASGLSQOMGAAGTAAQAQVAVFQEAANQ	65
Qy	61	KQELDEISTINIRQAVGYSPADBEQQOALSSQMGF	95
Db	66	KQELDEISTINIRQAVGYSPADBEQQOALSSQMGF	100

Search completed: February 3, 2006, 17:36:09
Job time : 22.0122 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 6.9886 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672a-10

Perfect score: 466
Sequence: 1 TDAATLAQENGFERISGDL.....VOYRADEEQCALSSQMGF 95

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5 COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6 COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	466	100.0	95	2 US-08-818-112-88	Sequence 88, App1
2	466	100.0	95	2 US-08-818-111-89	Sequence 89, App1
3	466	100.0	95	2 US-09-056-556-88	Sequence 88, App1
4	466	100.0	95	2 US-09-072-967-89	Sequence 89, App1
5	466	100.0	95	2 US-09-072-967-88	Sequence 88, App1
6	466	100.0	95	2 US-10-193-002-89	Sequence 89, App1
7	466	100.0	95	2 US-10-084-843-88	Sequence 88, App1
8	466	100.0	100	2 US-08-818-112-115	Sequence 115, App
9	466	100.0	100	2 US-08-818-111-110	Sequence 110, App
10	466	100.0	100	2 US-09-056-556-115	Sequence 115, App
11	466	100.0	100	2 US-09-072-967-110	Sequence 110, App
12	466	100.0	100	2 US-09-072-967-115	Sequence 115, App
13	466	100.0	100	2 US-10-193-002-110	Sequence 110, App
14	466	100.0	100	2 US-10-084-843-115	Sequence 115, App
15	466	100.0	358	2 US-09-287-849-8	Sequence 8, App1
16	466	100.0	802	2 US-09-056-556-214	Sequence 214, App
17	466	100.0	802	2 US-09-072-967-209	Sequence 209, App
18	466	100.0	802	2 US-09-072-967-346	Sequence 346, App
19	466	100.0	802	2 US-09-072-967-214	Sequence 214, App
20	466	100.0	802	2 US-09-072-967-351	Sequence 351, App
21	466	100.0	802	2 US-09-287-849-10	Sequence 10, App1
22	466	100.0	802	2 US-10-193-002-209	Sequence 209, App
23	466	100.0	802	2 US-10-193-002-346	Sequence 346, App
24	466	100.0	802	2 US-10-084-843-214	Sequence 214, App
25	466	100.0	802	2 US-10-084-843-351	Sequence 351, App
26	462	99.1	100	2 US-09-116-492a-5	Sequence 5, App1
27	392	84.1	80	2 US-08-818-112-117	Sequence 117, App

28	392	84.1	80	2 US-08-818-111-112	Sequence 112, App
29	392	84.1	80	2 US-09-056-556-117	Sequence 117, App
30	392	84.1	80	2 US-09-072-967-112	Sequence 112, App
31	392	84.1	80	2 US-09-072-967-117	Sequence 117, App
32	392	84.1	80	2 US-10-193-002-112	Sequence 112, App
33	392	84.1	80	2 US-10-084-843-117	Sequence 117, App
34	217	46.6	49	2 US-09-116-492a-6	Sequence 6, App1
35	205	44.0	42	2 US-09-116-492a-7	Sequence 7, App1
36	173	37.1	100	2 US-09-116-492a-28	Sequence 12, App1
37	137	29.4	28	2 US-09-116-492a-12	Sequence 12, App1
38	122	26.2	28	2 US-08-818-112-98	Sequence 98, App1
39	122	26.2	28	2 US-09-056-556-98	Sequence 98, App1
40	122	26.2	28	2 US-09-072-967-98	Sequence 98, App1
41	122	26.2	28	2 US-10-084-843-98	Sequence 98, App1
42	121	26.0	27	2 US-08-818-112-96	Sequence 96, App1
43	121	26.0	27	2 US-09-056-556-96	Sequence 96, App1
44	121	26.0	27	2 US-09-072-967-96	Sequence 96, App1
45	121	26.0	27	2 US-10-084-843-96	Sequence 96, App1

ALIGNMENTS

RESULT 1
US-08-818-112-88

Sequence 88, Application US/08818112

Patent No. 6290969

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Dillon, Davin C.

APPLICANT: Campos-Neto, Antonio

APPLICANT: Houghton, Raymond

APPLICANT: Vedicik, Thomas S.

APPLICANT: Twardzik, Daniel R.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 153

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,112

FILING DATE: 13-MAR-1997

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C6

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 88:

SEQUENCE CHARACTERISTICS:

LENGTH: 95 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-818-112-88

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAQAQAAVVRFOEANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAQAQAAVVRFOEANKQ 60
QY 61 KOELDEISTNIRQAGVQYSRADDEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVQYSRADDEEQOALSSQMGF 95

RESULT 2

US-08-818-111-89
; Sequence 89, Application US/08818111
; Patent No. 6338652
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,111
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 95 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-818-111-89

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAQAQAAVVRFOEANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAQAQAAVVRFOEANKQ 60
QY 61 KOELDEISTNIRQAGVQYSRADDEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVQYSRADDEEQOALSSQMGF 95

RESULT 3

US-09-056-556-88
; Sequence 88, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-APR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 88:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 95 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-056-556-88

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAQAQAAVVRFOEANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAQAQAAVVRFOEANKQ 60
QY 61 KOELDEISTNIRQAGVQYSRADDEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVQYSRADDEEQOALSSQMGF 95

RESULT 4

US-09-072-596-89
; Sequence 89, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Iodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-89

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENGPERISGDKTQIDQVESTAGSLQGWGCACTAAQAAYVRFQEAANKQ 60
DB 1 TDAATLAQEAENGPERISGDKTQIDQVESTAGSLQGWGCACTAAQAAYVRFQEAANKQ 60

QY 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 5
US-09-072-967-88
Sequence 88, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Veddzik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-88

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENGPERISGDKTQIDQVESTAGSLQGWGCACTAAQAAYVRFQEAANKQ 60
DB 1 TDAATLAQEAENGPERISGDKTQIDQVESTAGSLQGWGCACTAAQAAYVRFQEAANKQ 60

QY 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 6
US-10-193-002-89
Sequence 89, Application US/10193002
Patent No. 6949246
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Veddzik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 89:

US-10-193-002-89

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

Db 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

RESULT 7

US-10-084-843-88
Sequence 88, Application US/10084843
Patent No. 6962710
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, Davin C.

Campos-Neto, Antonio

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESS: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/084, 843

FILING DATE: 25-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072, 967

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.411C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 88:

SEQUENCE CHARACTERISTICS:

LENGTH: 95 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 88:

US-10-084-843-88

Query Match 100.0%; Score 466; DB 2; Length 95;

Best Local Similarity 100.0%; Pred. No. 3.5e-46;

Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

Db 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

RESULT 8

US-08-818-112-115
Sequence 115, Application US/08818112
Patent No. 6290969
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, Davin C.

Campos-Neto, Antonio

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

NUMBER OF SEQUENCES: 153

CORRESPONDENCE ADDRESS:

ADDRESS: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/818,112

FILING DATE: 13-MAR-1997

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.411C6

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 115:

SEQUENCE CHARACTERISTICS:

LENGTH: 100 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-818-112-115

Query Match 100.0%; Score 466; DB 2; Length 100;

Best Local Similarity 100.0%; Pred. No. 3.7e-46;

Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 6 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

Db 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

RESULT 9

US-08-818-111-110
Sequence 110, Application US/08818111
Patent No. 633852
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, Davin C.

Campos-Neto, Antonio

Houghton, Raymond

Vedvick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

NUMBER OF SEQUENCES: 153

CORRESPONDENCE ADDRESS:

ADDRESS: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/818,112

FILING DATE: 13-MAR-1997

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.411C6

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 115:

SEQUENCE CHARACTERISTICS:

LENGTH: 100 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-818-112-115

Query Match 100.0%; Score 466; DB 2; Length 100;

Best Local Similarity 100.0%; Pred. No. 3.7e-46;

Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 6 TDAATTAQEAQGNFERSGDLKTQIDQVESTAGSIQCGWRGAAGTAQAQAAVVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

Db 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESSES:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/06/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-818-111-110

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATLAQAGNFERISGLTKTQIDVESTAGSLQCGMGAAGTAQAQAVVRFQEAANKQ 60
DB 6 TDAATLAQAGNFERISGLTKTQIDVESTAGSLQCGMGAAGTAQAQAVVRFQEAANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 100

RESULT 10
US-09-056-556-115
Sequence 115, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESSES:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-056-556-115

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATLAQAGNFERISGLTKTQIDVESTAGSLQCGMGAAGTAQAQAVVRFQEAANKQ 60
DB 6 TDAATLAQAGNFERISGLTKTQIDVESTAGSLQCGMGAAGTAQAQAVVRFQEAANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 100

RESULT 11
US-09-072-596-110
Sequence 110, Application US/09072596
Patent No. 6458366
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESSES:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:

LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-596-110

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQENGNPERISGDLKTQIDQVESTAGSLQCGMRGAAGTAQAQAAVVRFOEANKQ 60
DB 6 TDAATLAQENGNPERISGDLKTQIDQVESTAGSLQCGMRGAAGTAQAQAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 100

RESULT 12

US-09-072-967-115
Sequence 115, Application US/09072967
Patent No. 6592877

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 115:

SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-967-115

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQENGNPERISGDLKTQIDQVESTAGSLQCGMRGAAGTAQAQAAVVRFOEANKQ 60

DB 6 TDAATLAQENGNPERISGDLKTQIDQVESTAGSLQCGMRGAAGTAQAQAAVVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 100

RESULT 13

US-10-193-002-110
Sequence 110, Application US/10193002
Patent No. 6949246

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 110:

SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
US-10-193-002-110

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQENGNPERISGDLKTQIDQVESTAGSLQCGMRGAAGTAQAQAAVVRFOEANKQ 60
DB 6 TDAATLAQENGNPERISGDLKTQIDQVESTAGSLQCGMRGAAGTAQAQAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQOALSSQMGF 100

RESULT 14

US-10-084-843-115
; Sequence 115, Application US/10084843
; Patent No. 6962710
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedrick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 115:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 115:
US-10-084-843-115
Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATTAOEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEAANKQ 60
DB 6 TDAATTAOEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEAANKQ 65
QY 61 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 100

RESULT 15
US-09-287-849-8
; Sequence 8, Application US/09287849
; Patent No. 6627198
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Alderson, Mark

APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: and Their Uses
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287,849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 8
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: bi-fusion
; NAME/KEY: MOD RES
; LOCATION: (25f)
; OTHER INFORMATION: Xaa = any amino acid
US-09-287-849-8

Query Match 100.0%; Score 466; DB 2; Length 358;
Best Local Similarity 100.0%; Pred. No. 2e-45;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATTAOEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEAANKQ 60
DB 264 TDAATTAOEAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAGAAVVRFOEAANKQ 323
QY 61 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 95
DB 324 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 358

Search completed: February 3, 2006, 17:02:24
Job time : 6.89856 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 66.2683 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672A-12
Perfect score: 1523
Sequence: 1 GDSFWAADQWARGFVLGAT.....RGPPAQLPGFEGGGLRPXK 286

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA_Main:*

- 1: /cgn2_6/ptodaca/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodaca/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/ptodaca/1/pubpaa/US09_PUBCOMB.pep:*
- 4: /cgn2_6/ptodaca/1/pubpaa/US10_PUBCOMB.pep:*
- 5: /cgn2_6/ptodaca/1/pubpaa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/ptodaca/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1520	99.8	286	3 US-09-886-349A-43	Sequence 43, Appl
2	1520	99.8	286	4 US-10-193-002-82	Sequence 82, Appl
3	1520	99.8	286	4 US-10-084-843-81	Sequence 81, Appl
4	1520	99.8	286	4 US-10-098-732A-43	Sequence 43, Appl
5	1520	99.8	286	6 US-11-028-898-81	Sequence 81, Appl
6	1520	99.8	286	6 US-11-082-005-82	Sequence 82, Appl
7	794	52.1	915	4 US-10-156-761-13329	Sequence 13329, A
8	722.5	47.4	923	6 US-11-073-550-22	Sequence 22, Appl
9	722.5	47.4	923	6 US-11-073-560-22	Sequence 22, Appl
10	698	45.8	904	3 US-09-738-626-5962	Sequence 5962, Ap
11	698	45.8	922	3 US-09-577-005-32	Sequence 32, Appl
12	698	45.8	922	3 US-09-577-005-34	Sequence 34, Appl
13	676	44.4	900	4 US-10-156-761-13547	Sequence 13547, A
14	648	42.5	277	4 US-10-781-014-92	Sequence 92, Appl
15	646	42.4	277	4 US-10-781-014-96	Sequence 96, Appl
16	544.5	35.8	887	5 US-10-893-671-4	Sequence 4, Appl
17	523.5	34.4	887	5 US-10-472-260-42	Sequence 42, Appl
18	247.5	16.3	187	5 US-10-472-260-40	Sequence 40, Appl
19	187	12.3	93	4 US-10-781-014-94	Sequence 94, Appl
20	187	12.3	93	4 US-10-781-014-178	Sequence 178, App
21	103	6.8	210	4 US-10-461-194-153	Sequence 153, App
22	103	6.8	278	4 US-10-425-115-368401	Sequence 368401,
23	102.5	6.7	372	4 US-10-369-493-18569	Sequence 18569, A
24	100	6.6	545	4 US-10-156-761-10930	Sequence 10930, A
25	99.5	6.5	6239	4 US-10-156-761-8477	Sequence 8477, Ap
26	99.5	6.5	6239	4 US-10-204-862A-5	Sequence 5, Appl
27	99.5	6.5	6239	6 US-11-005-196-4	Sequence 4, Appl

28	97	6.4	477	4 US-10-437-963-185891	Sequence 185891,
29	97	6.4	943	3 US-09-969-362-5	Sequence 5, Appl
30	96	6.3	6291	4 US-10-329-079-41	Sequence 41, Appl
31	95.5	6.3	886	5 US-10-719-993-799	Sequence 799, App
32	95.5	6.3	953	5 US-10-719-993-796	Sequence 796, App
33	95.5	6.3	19662	4 US-10-084-846A-6	Sequence 6, Appl
34	95	6.2	246	4 US-10-276-774-2466	Sequence 2466, Ap
35	95	6.2	403	5 US-10-732-923-10578	Sequence 10578, A
36	94.5	6.2	432	4 US-10-437-963-196368	Sequence 196368,
37	94	6.2	871	4 US-10-369-493-8059	Sequence 8059, Ap
38	93.5	6.1	400	4 US-10-369-493-9998	Sequence 9998, Ap
39	92.3	6.1	1332	4 US-10-437-963-195651	Sequence 195651,
40	92.3	6.1	852	3 US-09-812-350-6	Sequence 6, Appl
41	92.5	6.1	852	3 US-09-738-626-6999	Sequence 6999, Ap
42	92.5	6.1	852	5 US-10-732-923-6770	Sequence 6770, Ap
43	92	6.0	883	4 US-10-282-122A-49352	Sequence 49352, A
44	92	6.0	2595	4 US-10-329-079-7	Sequence 7, Appl
45	91.5	6.0	358	4 US-10-282-122A-48127	Sequence 48127, A

ALIGNMENTS

RESULT 1					
US-09-886-349A-43					
Sequence 43, Application US/09886349A					
Publication No. US20040086523A1					
GENERAL INFORMATION:					
APPLICANT: Skelky, Vasil					
APPLICANT: Reed, Steven					
APPLICANT: Alderson, Mark					
TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis					
FILE REFERENCE: 014058-009070US					
CURRENT APPLICATION NUMBER: US/09/886,349A					
CURRENT FILING DATE: 2001-06-20					
PRIOR APPLICATION NUMBER: US 09/597,796					
PRIOR FILING DATE: 2000-06-20					
PRIOR APPLICATION NUMBER: US 60/265,737					
PRIOR FILING DATE: 2001-02-01					
NUMBER OF SEQ ID NOS: 50					
SOFTWARE: PatentIn Ver. 2.1					
SEQ ID NO 43					
LENGTH: 286					
TYPE: PRT					
ORGANISM: Mycobacterium tuberculosis					
FEATURE:					
OTHER INFORMATION: TBH4					
FEATURE:					
NAME/KEY: MOD_RES					
LOCATION: (1)-(286)					
OTHER INFORMATION: Xaa = any amino acid					
US-09-886-349A-43					
Query Match					
Best Local Similarity 100.0%; Pred. No. 1.7e-145;					
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1	GDSFWAADQWARGFVLGATGRTTLTGEGLQHADGSLLDATNPVAVDPAYBIG	60		
DB	1	GDSFWAADQWARGFVLGATGRTTLTGEGLQHADGSLLDATNPVAVDPAYBIG	60		
QY	61	YIKSSGARGCGENPFIFITVYNNPYPQPPENFDEGVTGGLYRHAATEORTNK	120		
DB	61	YIKSSGARGCGENPFIFITVYNNPYPQPPENFDEGVTGGLYRHAATEORTNK	120		
QY	121	XQIIASGVAMPALIRAAQMLAEWDVADVSVTSGELNRDGVVITTEKLRHDPRAGV	180		
DB	121	XQIIASGVAMPALIRAAQMLAEWDVADVSVTSGELNRDGVVITTEKLRHDPRAGV	180		
QY	181	PYVTRALENARGPIVANSDDMKRAVPEDIRPWPCTVTLTDTGSGEDTDPAGGRVNTD	240		
DB	181	PYVTRALENARGPIVANSDDMKRAVPEDIRPWPCTVTLTDTGSGEDTDPAGGRVNTD	240		

QY	121	QOIIASGVAMPALPAALAAQMLAAEMVDVAADVAWSVTSNGELNRDQVILETEKLRHPDRAGV	180
Db	121	QOIIASGVAMPALPAALAAQMLAAEMVDVAADVAWSVTSNGELNRDQVILETEKLRHPDRAGV	180
QY	121	QOIIASGVAMPALPAALAAQMLAAEMVDVAADVAWSVTSNGELNRDQVILETEKLRHPDRAGV	180
Db	121	QOIIASGVAMPALPAALAAQMLAAEMVDVAADVAWSVTSNGELNRDQVILETEKLRHPDRAGV	180
QY	181	PYVTRALENARGPVIAVSDMRAVPEQIRPMVVGTLTLTGTDGFGSDTRPAGRRFYNTD	240
Db	181	PYVTRALENARGPVIAVSDMRAVPEQIRPMVVGTLTLTGTDGFGSDTRPAGRRFYNTD	240
QY	181	PYVTRALENARGPVIAVSDMRAVPEQIRPMVVGTLTLTGTDGFGSDTRPAGRRFYNTD	240
Db	181	PYVTRALENARGPVIAVSDMRAVPEQIRPMVVGTLTLTGTDGFGSDTRPAGRRFYNTD	240
QY	241	AEQVGRGFGRCMPGRRRVINDPFGAARGPPAOLPGFDEGGGLRPXK	286
Db	241	AEQVGRGFGRCMPGRRRVINDPFGAARGPPAOLPGFDEGGGLRPXK	286

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RESULT 4
US-10-098-732A-43
/ Sequence 43, Application US/10098732A
/ Publication No. US20030175294A1
/ GENERAL INFORMATION:
/ APPLICANT: Skeiky, Yasir
/ APPLICANT: Brannon, Mark
/ APPLICANT: Guderian, Jeffrey
/ APPLICANT: Corixa Corporation
/ TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
/ TITLE OF INVENTION: Leishmania Antigen
/ FILE REFERENCE: 014058-012010US
/ CURRENT APPLICATION NUMBER: US/10/098, 732A
/ PRIOR FILING DATE: 2003-04-29
/ PRIOR APPLICATION NUMBER: US 60/275, 837
/ NUMBER OF SEQ ID NOS: 80
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 43
/ LENGTH: 286
/ TYPE: PRT
/ ORGANISM: Mycobacterium tuberculosis
/ FEATURE:
/ OTHER INFORMATION: TBH4
/ FEATURE:
/ NAME/KEY: MOD RES
/ LOCATION: (1)-(286)
/ OTHER INFORMATION: Xaa = any amino acid
US-10-098-732A-43

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Query Match	99.8%;	Score 1520;	DB 4;	Length 286;
Best Local Similarity	100.0%;	Pred. NO. 1.7e-145;		
Matches 286;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GDSFMAADQMARGFVLGATAGRTLLTGEGLQHDGSHLLDATNPAAVADPAFAVEIG	60	
Db	1	GDSFMAADQMARGFVLGATAGRTLLTGEGLQHDGSHLLDATNPAAVADPAFAVEIG	60	
QY	61	YIXESGLARMGGENPENIFYYITTYNEYYVOPPEPENDEPGVULGIIYRYAATFORNK	120	
Db	61	YIXESGLARMGGENPENIFYYITTYNEYYVOPPEPENDEPGVULGIIYRYAATFORNK	120	
QY	121	XQIIASGVAMPALRAAOMLAEMDVADWVSYSWGEIANDGVYIETEKLRHDPKPV	180	
Db	121	XQIIASGVAMPALRAAOMLAEMDVADWVSYSWGEIANDGVYIETEKLRHDPKPV	180	
QY	181	PYVTRALENARGPVIASVDMKRAVPEQIRPWPGYTLTGTDGFEFSDTRPAGRRYFMTD	240	
Db	181	PYVTRALENARGPVIASVDMKRAVPEQIRPWPGYTLTGTDGFEFSDTRPAGRRYFMTD	240	
QY	241	AESQVGRGFGRGMPGRRVNIDPFGAGRGPPALPGFDEGGGLRPXK	286	
Db	241	AESQVGRGFGRGMPGRRVNIDPFGAGRGPPALPGFDEGGGLRPXK	286	

RESULT 5

US-11-028-898-81

; Sequence 81, Application US/11028898

; Publication No. US20050136059A1

```

1 GENERAL INFORMATION:
2
3 APPLICANT: Reed, Steven G.
4
5 Skelky, Yasir A.W.
6 Dillon, Davin C.
7 Campos-Neto, Antonio
8 Houghton, Raymond
9 Vedvick, Thomas S.
10 Twardzik, Daniel R.
11 Lodes, Michael J.
12 Hendrickson, Ronald C.
13
14 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
15 AND DIAGNOSIS OF TUBERCULOSIS
16
17 NUMBER OF SEQUENCES: 355
18 CORRESPONDENCE ADDRESS:
19
20 ADDRESSEE: SEED and BERRY LLP
21 STREET: 6300 Columbia Center, 701 Fifth Avenue
22 CITY: Seattle
23 STATE: Washington
24 COUNTRY: USA
25
26 ZIP: 98104-7092
27
28 COMPUTER READABLE FORM:
29
30 MEDIUM TYPE: Floppy disk
31 COMPUTER: IBM PC compatible
32 OPERATING SYSTEM: PC-DOS/MS-DOS
33 SOFTWARE: PatentIn Release #1.0, Version #1.30
34
35 CURRENT APPLICATION DATA:
36
37 APPLICATION NUMBER: US/11/028,898
38 FILING DATE: 03-Jan-2005
39 CLASSIFICATION: <Unknown>
40
41 PRIOR APPLICATION DATA:
42
43 APPLICATION NUMBER: US/10/084,843
44 FILING DATE: 03-Jan-2005
45 APPLICATION NUMBER: US/09/072,967
46 FILING DATE: 05-MAY-1998
47
48 ATTORNEY/AGENT INFORMATION:
49
50 NAME: Makl, David J.
51 REGISTRATION NUMBER: 31,392
52 REFERENCE/DOCKET NUMBER: 210121.411C9
53
54 TELECOMMUNICATION INFORMATION:
55
56 TELEPHONE: (206) 622-4900
57 TELEFAX: (206) 682-6031
58
59 INFORMATION FOR SEQ ID NO: 81:
60
61 SEQUENCE CHARACTERISTICS:
62
63 LENGTH: 286 amino acids
64 TYPE: amino acid
65 STRANDEDNESS: single
66 TOPOLOGY: linear
67
68 SEQUENCE DESCRIPTION: SEQ ID NO: 81:
69
70 US-11-028-898-81

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[illegible]

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RESULT 6
US-11-082-005-82
; Sequence 82, Application US/11082005
; Publication No. US20050181419A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
;           Skeiky, Yaelir A.W.
;           Dillon, David C.
;           Campos-Neto, Antonia
;           Houghton, Raymond
;           Vedvick, Thomas S.
;           Twardzik, Daniel R.
;           Lodes, Michael J.
;           Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/082,005
; FILING DATE: 15-Mar-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-11-082-005-82

Query Match          99.8%; Score 1520; DB 6; Length 286;
Best Local Similarity 100.0%; Pred. No. 1,7e-145;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
QY YIESGLARMCGENPEFIFFYITVYNEPVYQPEPEPEDEPGVIGIYRYHAATEQRNTK 120
DB 61 YIESGLARMCGENPEFIFFYITVYNEPVYQPEPEPEDEPGVIGIYRYHAATEQRNTK 120
QY YIESGLARMCGENPEFIFFYITVYNEPVYQPEPEPEDEPGVIGIYRYHAATEQRNTK 120
DB 61 YIESGLARMCGENPEFIFFYITVYNEPVYQPEPEPEDEPGVIGIYRYHAATEQRNTK 120
QY XQILASGVAMPALRAAOMLAEMDVADVWSVTSMGELNRDGVVIEETKLRHPRPAGV 180
DB 121 XQILASGVAMPALRAAOMLAEMDVADVWSVTSMGELNRDGVVIEETKLRHPRPAGV 180
QY XQILASGVAMPALRAAOMLAEMDVADVWSVTSMGELNRDGVVIEETKLRHPRPAGV 180
DB 121 XQILASGVAMPALRAAOMLAEMDVADVWSVTSMGELNRDGVVIEETKLRHPRPAGV 180
QY PYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYITLTGDTGFGFSOTRPAARRYNTD 240
DB 181 PYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYITLTGDTGFGFSOTRPAARRYNTD 240
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RESULT 7
US-10-156-761-13329
; Sequence 13329, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 13329
; LENGTH: 915
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-13329

Query Match          52.1%; Score 794; DB 4; Length 915;
Best Local Similarity 61.6%; Pred. No. 4.4e-71;
Matches 154; Conservative 30; Mismatches 60; Indels 6; Gaps 3;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 625 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 684
QY YIESGLARMC--ENP--ENIFFYITVYNEPVYQPEPEPEDEPGVIGIYRYHAATE 115
DB 61 YIESGLARMC--ENP--ENIFFYITVYNEPVYQPEPEPEDEPGVIGIYRYHAATE 115
QY HIYQDGLRRMYGSSEEPHGEDVFYLYTYNEPIQHPAEPEENVDEGILNGIRFSGT- 743
DB 685 HIYQDGLRRMYGSSEEPHGEDVFYLYTYNEPIQHPAEPEENVDEGILNGIRFSGT- 743
QY QRTNKQIILASGVAMPALRAAOMLAEMDVADVWSVTSMGELNRDGVVIEETKLRHPD 175
DB 116 QRTNKQIILASGVAMPALRAAOMLAEMDVADVWSVTSMGELNRDGVVIEETKLRHPD 175
QY AGSIPAOIISGVAVPAVAAQKILAEENVRKADVWSATSMNELRRAVEVERHNLLHPE 803
DB 744 AGSIPAOIISGVAVPAVAAQKILAEENVRKADVWSATSMNELRRAVEVERHNLLHPE 803
QY RPAQVPYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYITLTGDTGFGFSOTRPAARR 235
DB 176 RPAQVPYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYITLTGDTGFGFSOTRPAARR 235
QY EQQRVFPVTKLSAEEGPFVAADVSDMMSVDPQISRWVPGTYIGLADGFGFADTRGAARR 863
DB 804 EQQRVFPVTKLSAEEGPFVAADVSDMMSVDPQISRWVPGTYIGLADGFGFADTRGAARR 863
QY YENTDAESQY 245
DB 236 YENTDAESQY 245
QY FFHIDAQSIY 873
DB 864 FFHIDAQSIY 873

RESULT 8
US-11-073-550-22
; Sequence 22, Application US/11073550
; Publication No. US20050176127A1
; GENERAL INFORMATION:
; APPLICANT: HIRANO, SRIKO
; APPLICANT: KIMURA, EICHIRO
; APPLICANT: OSUMI, TSUYOSHI
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: KAWAHARA, YOSHIO
; APPLICANT: NONAKA, GEN
; APPLICANT: MATSUZAKI, YUMI
; APPLICANT: AKIOYOSHI, NAOKI
```


APPLICANT: NAKAMURA, KANAE
APPLICANT: KURAHASHI, OSAMU
APPLICANT: NAKAMATSU, TSUYOSHI
APPLICANT: SUGIMOTO, SHINICHI
TITLE OF INVENTION: GENES FOR HEAT RESISTANT ENZYMES OF AMINO ACID BIOSYNTHETIC PATHWAY
TITLE OF INVENTION: DERIVED FROM THERMOPHILIC CORINEFORM BACTERIA
FILE REFERENCE: 221519USOPT
CURRENT APPLICATION NUMBER: US/11/073,550
CURRENT FILING DATE: 2005-03-08
PRIOR APPLICATION NUMBER: US/10/089,057
PRIOR FILING DATE: 2002-04-03
PRIOR APPLICATION NUMBER: PCT/JP00/06913
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: JP 11-282716
PRIOR FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: JP 11-311147
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: JP 2000-120687
PRIOR FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 108
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 923
TYPE: PRT
ORGANISM: Corynebacterium thermoaminogenes
US-11-073-550-22

Query Match 47.4%; Score 722.5; DB 6; Length 923;
Best Local Similarity 56.9%; Pred. No. 8.1e-64;

Matches 140; Conservative 30; Mismatches 75; Indels 1; Gaps 1;

QY 1 GDSFWAADQMARGFVLTAGRTTLTGEGLOHADGSHLLDATTNPAVVAADPAFAVEIG 60
DB 636 GDSFWAADQMARGFVLTAGRTTLTGEGLOHADGSHLLDATTNPAVVAADPAFAVEIG 695
QY 61 YXESGLARWCGENP-ENIFFYITVNEPYVOPPEPENFPEGVLGGIYRHHATEQRTN 119
DB 696 HLVHGRIDRNYGPKGKENVLYLTINEPTPPQAPBEPDLVGEHKGIIYIDKAAEBEGH 755
QY 120 KXOILASGVAMPALRAQMLAEWDVAADVSVTSNGELNRDGVVETETKLRHPDRPAG 179
DB 756 EASIIASGICMOWALRARDILABDYGIRANIFSATSWVELARPGARNLELRPGADVG 815
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTGTGDFGSDTRPAGRRYFNT 239
DB 816 EAFVYTLQKKGSGPYAVSDPATDLPQIRBWPBGDIYVIGADGFGSDTRPAGRRYFNT 875
QY 240 DAESQV 245
DB 876 DAESIV 881

RESULT 9

US-11-073-560-22
Sequence 22, Application US/11073560
Publication No. US20050239176A1
GENERAL INFORMATION:
APPLICANT: HIRANO, SEIKO
APPLICANT: NONAKA, GEN
APPLICANT: MATSUZAKI, YUMI
APPLICANT: AKIYOSHI, NAOKI
APPLICANT: NAKAMURA, KANAE
APPLICANT: KIMURA, EICHIRO
APPLICANT: OSUMI, TSUYOSHI
APPLICANT: MATSUO, KAZUHIKO
APPLICANT: KAWAHARA, YOSHIO
APPLICANT: KURAHASHI, OSAMU
APPLICANT: NAKAMATSU, TSUYOSHI
APPLICANT: SUGIMOTO, SHINICHI
TITLE OF INVENTION: GENES FOR HEAT RESISTANT ENZYMES OF AMINO ACID BIOSYNTHETIC PATHWAY
TITLE OF INVENTION: DERIVED FROM THERMOPHILIC CORINEFORM BACTERIA
FILE REFERENCE: 221519USOPT
CURRENT APPLICATION NUMBER: US/11/073,560

CURRENT FILING DATE: 2005-03-08
PRIOR APPLICATION NUMBER: US/10/089,057
PRIOR FILING DATE: 2002-04-03
PRIOR APPLICATION NUMBER: PCT/JP00/6913
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: JP11-282716
PRIOR FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: JP11-311147
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: JP 2000-120687
PRIOR FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 129
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 923
TYPE: PRT
ORGANISM: Corynebacterium thermoaminogenes
US-11-073-560-22

Query Match 47.4%; Score 722.5; DB 6; Length 923;
Best Local Similarity 56.9%; Pred. No. 8.1e-64;

Matches 140; Conservative 30; Mismatches 75; Indels 1; Gaps 1;

QY 1 GDSFWAADQMARGFVLTAGRTTLTGEGLOHADGSHLLDATTNPAVVAADPAFAVEIG 60
DB 636 GDSFWAADQMARGFVLTAGRTTLTGEGLOHADGSHLLDATTNPAVVAADPAFAVEIG 695
QY 61 YXESGLARWCGENP-ENIFFYITVNEPYVOPPEPENFPEGVLGGIYRHHATEQRTN 119
DB 696 HLVHGRIDRNYGPKGKENVLYLTINEPTPPQAPBEPDLVGEHKGIIYIDKAAEBEGH 755
QY 120 KXOILASGVAMPALRAQMLAEWDVAADVSVTSNGELNRDGVVETETKLRHPDRPAG 179
DB 756 EASIIASGICMOWALRARDILABDYGIRANIFSATSWVELARPGARNLELRPGADVG 815
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTGTGDFGSDTRPAGRRYFNT 239
DB 816 EAFVYTLQKKGSGPYAVSDPATDLPQIRBWPBGDIYVIGADGFGSDTRPAGRRYFNT 875
QY 240 DAESQV 245
DB 876 DAESIV 881

RESULT 10

US-09-738-626-5962
Sequence 5962, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OKAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 5962
LENGTH: 904

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; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
; US-09-738-626-5962

Query Match
Best Local Similarity 56.9%; Pred. No. 2.4e-61;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 677
QY 61 YIYESGLARMCENP-ENIFFYITVYNEPVPQPEPENFDEGVLGIIYRYHAATEORTN 119
DB 618 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 677
QY 618 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 677
DB 678 HLVHKGIDRMVGGKGGEDVYITITINEPTPOPAEPGLDVEGLHKGIYLY-SRGGSTGH 736
QY 120 KXOIIASGVAMPALRAQOMLAEMDVAADVSVTSWGEINRDGVVLETEKLRHPDRPAG 179
DB 737 EANITLASGVOMALKAASILEADYGRANISATSWNLARQGAANKQQLNPGADAG 796
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTLGTGFGFSDTRPAGRRYFNT 239
DB 797 EAFVTTQLKQTSQPYVAVSDPSTDLPNQIREWVGDTYVLGADGFGSDTRPARRRFFNI 856
QY 240 DAEQV 245
DB 857 DAEISV 862

RESULT 11
US-09-577-005-32
; Sequence 32, Application US/09577005
; Publication No. US20040002143A1
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, AN
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AM
; TITLE OF INVENTION: PRODUCING BACTERIAL STRAINS
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; CURRENT FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Brevibacterium lactofermentum ATCC13869
; US-09-577-005-32

Query Match
Best Local Similarity 45.8%; Score 698; DB 3; Length 922;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 636 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 695
QY 61 YIYESGLARMCENP-ENIFFYITVYNEPVPQPEPENFDEGVLGIIYRYHAATEORTN 119
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DB 696 HLVHKGIDRMVGGKGGEDVYITITINEPTPOPAEPGLDVEGLHKGIYLY-SRGGSTGH 754
QY 120 KXOIIASGVAMPALRAQOMLAEMDVAADVSVTSWGEINRDGVVLETEKLRHPDRPAG 179
DB 755 EANITLASGVOMALKAASILEADYGRANISATSWNLARQGAANKQQLNPGADAG 814
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTLGTGFGFSDTRPAGRRYFNT 239
DB 815 EAFVTTQLKQTSQPYVAVSDPSTDLPNQIREWVGDTYVLGADGFGSDTRPARRRFFNI 874
QY 240 DAEQV 245
DB 875 DAEISV 880

RESULT 12
US-09-577-005-34
; Sequence 34, Application US/09577005
; Publication No. US20040002143A1
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, ANI
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AMI
; TITLE OF INVENTION: PRODUCING BACTERIAL STRAINS
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; CURRENT FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Brevibacterium lactofermentum ATCC13869
; US-09-577-005-34

Query Match
Best Local Similarity 45.8%; Score 698; DB 3; Length 922;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 636 GDSFWAADQMARGFVLGATAGRTTLTGEGLQHADGSHLLDATTNPVAVYDPAFAVEIG 695
QY 61 YIYESGLARMCENP-ENIFFYITVYNEPVPQPEPENFDEGVLGIIYRYHAATEORTN 119
DB 696 HLVHKGIDRMVGGKGGEDVYITITINEPTPOPAEPGLDVEGLHKGIYLY-SRGGSTGH 754
QY 120 KXOIIASGVAMPALRAQOMLAEMDVAADVSVTSWGEINRDGVVLETEKLRHPDRPAG 179
DB 755 EANITLASGVOMALKAASILEADYGRANISATSWNLARQGAANKQQLNPGADAG 814
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTLGTGFGFSDTRPAGRRYFNT 239
DB 815 EAFVTTQLKQTSQPYVAVSDPSTDLPNQIREWVGDTYVLGADGFGSDTRPARRRFFNI 874
QY 240 DAEQV 245
DB 875 DAEISV 880
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Db 875 DAESIV 880

RESULT 13

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US-10-156-761-13547
; Sequence 13547, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 13547
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-13547
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Query Match 44.4%; Score 676; DB 4; Length 900;
Best Local Similarity 53.3%; Pred. No. 4,le-59;
Matches 136; Conservative 32; Mismatches 73; Indels 14; Gaps 4;
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QY 2 DSEFAADQMARCVLTATGRTTLTGBGLQHADGSHLLDNTNPAVAVDPAFAVEIGY 61
DB 622 DQWQQLDQGRGLVATGRTTLTGBGLQHADGSHLVATNPAATYDPAFAVEIAV 681
QY 62 IXESGLARMGE---NPENFYITVYNEPVYQPEPENPD-PEGVLGIGYRHATE- 115
DB 682 IXVXGLRMVGEAAPGSDPNVFFYLLTVYNEVPQAPAPAGIGIDEGIVKGLYRNTESA 741
QY 116 -----QRTNKQIILASGVAMPALRAAOMLAEMVDVADVSVTSWGLNRDGVVIEEK 170
DB 742 DLSFAAARPRIGLISGTAIHVYQAOPLAEEGVADVSAISWELRDLAAL 801
QY 171 LRHDPBAGVYVYTRALENAGPVIAVSDMRAVPEQIRPWPGTYLTGTGFGFSQDTR 230
DB 802 LRGEER---VPFYQALHGABGVLAIVSDVMRQVPEQIAQWVEDQDYSLSLGDGFGSLDTR 858
QY 231 PAGRRTNTDAESQV 245
DB 859 DAARRHGVDAESIV 873
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RESULT 14

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US-10-781-014-92
; Sequence 92, Application US/10781014
; Publication No. US20040180408A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schröder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habermeyer, Gregor
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; FILE REFERENCE: BGI-126CPCN
; CURRENT APPLICATION NUMBER: US/10/781,014
; CURRENT FILING DATE: 2004-02-17
; PRIOR APPLICATION NUMBER: US 09/602,740
; PRIOR FILING DATE: 2000-06-23
```

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;; PRIOR APPLICATION NUMBER: 60/141,031
;; PRIOR FILING DATE: 1999-06-25
;; PRIOR APPLICATION NUMBER: 60/143,208
;; PRIOR FILING DATE: 1999-07-09
;; PRIOR APPLICATION NUMBER: 60/151,572
;; PRIOR FILING DATE: 1999-08-31
;; PRIOR APPLICATION NUMBER: DE 19931412.8
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931413.6
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931419.5
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931420.9
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931424.1
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931428.4
;; PRIOR FILING DATE: 1999-07-08
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 784
;; SEQ ID NO 92
;; LENGTH: 277
;; TYPE: PRT
;; ORGANISM: Corynebacterium glutamicum
US-10-781-014-92
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Query Match 42.5%; Score 648; DB 4; Length 277;
Best Local Similarity 55.5%; Pred. No. 5,8e-57;
Matches 131; Conservative 30; Mismatches 73; Indels 2; Gaps 2;
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```
QY 11 MARGFVLGATGATGRTTLTGBGLQHADGSHLLDNTNPAVAVDPAFAVEIGIXESGLARM 70
DB 1 MARGFVLGATGATGRTTLTGBGLQHADGSHPLASTNBEVEYDPSFAEINHLVHRGIDRM 60
QY 71 CGENP-ENIFFYITVYNEPVYQPEPENPDPEGVLGIGYRHATEBQRTNKQIILASGVA 129
DB 61 YGEGKGDVLYITVYNEVPQAPAPAGIGIDEGIVKGLYRNTESA 119
QY 130 MPALRAAOMLAEMVDVADVSVTSWGLNRDGVVIEEKLRHDPBAGVYVYTRALEN 189
DB 120 MOWALKAASTLEADYGRANIVSATSVMNLRGGAARNAKQLRNPGADAGEAFVTLQKQ 179
QY 190 ARGVIAVSDMRAVPEQIRPWPGTYLTGTGFGFSQDTRPAGRRTNTDAESQV 245
DB 180 TSGFYAVSDPSTDLNQLREWVPGDYTVLGAJGFGSDTRPARRRTFNDAESIV 235
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RESULT 15

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US-10-781-014-96
; Sequence 96, Application US/10781014
; Publication No. US20040180408A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schröder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habermeyer, Gregor
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; FILE REFERENCE: BGI-126CPCN
; CURRENT APPLICATION NUMBER: US/10/781,014
; CURRENT FILING DATE: 2004-02-17
; PRIOR APPLICATION NUMBER: US 09/602,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/143,208
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: 60/151,572
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19931412.8
; PRIOR FILING DATE: 1999-07-08
```

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; PRIOR APPLICATION NUMBER: DE 19931413.6
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931424.1
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931428.4
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931428.4
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 784
; SEQ ID NO 96
; LENGTH: 277
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
; US-10-781-014-96

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Query Match      42.4%; Score 646; DB 4; Length 277;
Best Local Similarity 55.5%; Pred. No. 9.2e-57;
Matches 131; Conservative 29; Mismatches 74; Indels 2; Gaps 2;

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QY      11 MARGFVLGATAGRTTGTGEGLOHADGSHLLDATTNPAVAVDPAFAVEIGIYESGLARM 70
Db      1 MARGFPLGATAGRTTGTGEGLOHADGSHPLVASTNEGVETYPDFAFETIAHLVHKGIDRM 60
QY      71 CGENP-ENIFFYITVYNEPYPVQPEPENFDPEGVLAGIYRYHAATEQRTNKKQIILASGVA 129
Db      61 YGPGKGEDVLYYITLYINEPTQPAPEPEGLDVEGLHKGILYLY-SRGEGTGHEANILASGVC 119
QY      130 MPAAALRAAOMLAEMDVAAVWSVTSNGELNRDGVVLETETKLRHPRDPAGVPYTRALEN 189
Db      120 MQWALKAASTLEADYGVRAVYISATSWVNLARDGAARNAQOLRNPGADAGBAFVTTQLKQ 179
QY      190 ARGPVIAVSDMRAVPEQIRPWVPGTYLTGTDGFGFSDTRPAGRRYFNTDAESOV 245
Db      180 TSGPYVAVSDPFSIDLPRQIREWVPGDYTVLGADGFGFSDTRPARRRFFNIDAESIV 235

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Search completed: February 3, 2006, 17:36:10
Job time: 67.2683 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 20.7683 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672A-12
Perfect score: 1523
Sequence: 1 GGSFMAADQMAKGVLAGT.....RGPPAQLPGFEGSGGRPKX 286

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5.COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6.COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H.COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCUS.COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE.COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1520	99.8	286	2 US-08-818-112-81	Sequence 81, Appl
2	1520	99.8	286	2 US-08-818-111-82	Sequence 82, Appl
3	1520	99.8	286	2 US-09-056-556-81	Sequence 81, Appl
4	1520	99.8	286	2 US-09-072-596-82	Sequence 82, Appl
5	1520	99.8	286	2 US-09-072-867-81	Sequence 81, Appl
6	1520	99.8	286	2 US-10-193-002-82	Sequence 82, Appl
7	1520	99.8	286	2 US-10-084-843-81	Sequence 81, Appl
8	698	45.8	922	2 US-09-577-005-32	Sequence 32, Appl
9	698	45.8	922	2 US-09-577-005-34	Sequence 34, Appl
10	546.5	35.9	882	2 US-09-489-039A-12282	Sequence 12282, A
11	544.5	35.8	887	1 US-08-215-709-1	Sequence 1, Appl
12	541.5	35.6	925	2 US-09-540-236-3586	Sequence 3586, Ap
13	540.5	35.5	897	2 US-09-543-681A-4915	Sequence 4915, Ap
14	539.5	35.4	922	2 US-09-252-991A-32759	Sequence 32759, A
15	509	33.4	906	2 US-09-328-352-6037	Sequence 6037, Ap
16	100.5	6.6	363	2 US-09-902-540-10626	Sequence 10626, A
17	100.5	6.6	686	2 US-09-252-991A-21221	Sequence 21221, A
18	99.5	6.5	6239	2 US-09-914-286-4	Sequence 4, Appl
19	98.5	6.5	580	2 US-09-252-991A-20407	Sequence 20407, A
20	97	6.4	943	2 US-09-397-885-5	Sequence 5, Appl
21	97	6.4	943	2 US-09-969-362-5	Sequence 5, Appl
22	94	6.2	548	2 US-09-902-540-12604	Sequence 12604, A
23	92	6.0	348	2 US-09-549-108-7	Sequence 7, Appl
24	92	6.0	348	2 US-09-549-111-7	Sequence 7, Appl
25	92	6.0	348	2 US-09-549-106-7	Sequence 7, Appl
26	92	6.0	348	2 US-09-550-394-7	Sequence 7, Appl
27	92	6.0	348	2 US-09-550-394-7	Sequence 7, Appl

28	91	6.0	400	2 US-09-489-039A-7483	Sequence 7483, Ap
29	91	6.0	988	2 US-09-252-991A-28699	Sequence 28699, A
30	91	6.0	1218	2 US-09-477-962-100	Sequence 100, App
31	90.5	5.9	395	2 US-09-252-991A-26116	Sequence 26116, A
32	90.5	5.9	811	2 US-09-902-540-15368	Sequence 15368, A
33	90.5	5.9	2517	2 US-09-902-540-15380	Sequence 15380, A
34	89.5	5.9	3972	2 US-09-914-286-3	Sequence 3, Appl
35	89	5.8	372	2 US-09-413-814-69	Sequence 69, Appl
36	89	5.8	514	2 US-09-252-991A-25281	Sequence 25281, A
37	89	5.8	651	2 US-09-902-540-11752	Sequence 11752, A
38	88.5	5.8	581	2 US-09-107-532A-6835	Sequence 6835, Ap
39	87.5	5.7	385	2 US-09-252-991A-25651	Sequence 25651, A
40	87.5	5.7	574	2 US-09-252-991A-33065	Sequence 33065, A
41	87.5	5.7	6396	2 US-09-410-5518-72	Sequence 72, Appl
42	87.5	5.7	6396	2 US-09-940-3168-72	Sequence 72, Appl
43	86.5	5.7	456	2 US-09-252-991A-17335	Sequence 17335, A
44	86.5	5.7	482	2 US-09-252-991A-28339	Sequence 28339, A
45	86	5.6	4472	1 US-08-804-227C-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-818-112-81
Sequence 81, Application US/08818112
Patent No. 6290969
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neco, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedrick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.41106
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 81:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-112-81
Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154; Indels 0; Gaps 0;
Matches 286; Conservative 0; Mismatches 0;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
QY 61 YIYESGLARMCGENPENIFFYITVYNEPPYQPEPEPFDEGVLGIGYRHYHAATEQRTNK 120
DB 61 YIYESGLARMCGENPENIFFYITVYNEPPYQPEPEPFDEGVLGIGYRHYHAATEQRTNK 120
QY 121 XQILASGVAMPALRAAQMIAEMDVADYVSTSMGELNRDGVLETETKLHPDRPAGV 180
DB 121 XQILASGVAMPALRAAQMIAEMDVADYVSTSMGELNRDGVLETETKLHPDRPAGV 180
QY 181 PYTTRALENARGVIAVSDMWRAPVQIRPWPBGTYLTGTDGFGSDTRPAGRRYNTD 240
DB 181 PYTTRALENARGVIAVSDMWRAPVQIRPWPBGTYLTGTDGFGSDTRPAGRRYNTD 240
QY 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAQLPGFDEGGGLRPXK 286
DB 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAQLPGFDEGGGLRPXK 286

RESULT 2

US-08-818-111-82
; Sequence 82, Application US/08818111
; Patent No. 6338852
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,111
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-818-111-82

Query Match

Best Local Similarity 99.8%; Score 1520; DB 2; Length 286;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60

QY 61 YIYESGLARMCGENPENIFFYITVYNEPPYQPEPEPFDEGVLGIGYRHYHAATEQRTNK 120
DB 61 YIYESGLARMCGENPENIFFYITVYNEPPYQPEPEPFDEGVLGIGYRHYHAATEQRTNK 120
QY 121 XQILASGVAMPALRAAQMIAEMDVADYVSTSMGELNRDGVLETETKLHPDRPAGV 180
DB 121 XQILASGVAMPALRAAQMIAEMDVADYVSTSMGELNRDGVLETETKLHPDRPAGV 180
QY 181 PYTTRALENARGVIAVSDMWRAPVQIRPWPBGTYLTGTDGFGSDTRPAGRRYNTD 240
DB 181 PYTTRALENARGVIAVSDMWRAPVQIRPWPBGTYLTGTDGFGSDTRPAGRRYNTD 240
QY 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAQLPGFDEGGGLRPXK 286
DB 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAQLPGFDEGGGLRPXK 286

RESULT 3

US-09-056-556-81
; Sequence 81, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-APR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 81:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-056-556-81

Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGEGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
QY 61 YIYESGLARMCGENPENIFFYITVYNEPPYQPEPEPFDEGVLGIGYRHYHAATEQRTNK 120
DB 61 YIYESGLARMCGENPENIFFYITVYNEPPYQPEPEPFDEGVLGIGYRHYHAATEQRTNK 120
QY 121 XQILASGVAMPALRAAQMIAEMDVADYVSTSMGELNRDGVLETETKLHPDRPAGV 180
DB 121 XQILASGVAMPALRAAQMIAEMDVADYVSTSMGELNRDGVLETETKLHPDRPAGV 180

Db 121 XQIIASGVAMPALRAAQMLAEWDVAADVWSVTSGELNRDGVITETKLRHDPDPAGV 180
Qy 181 PYTRALENARGVIAVSDMRAVPEQIRPWPVGTLLTGTDFGSDTRPAGRRYENTD 240
Db 181 PYTRALENARGVIAVSDMRAVPEQIRPWPVGTLLTGTDFGSDTRPAGRRYENTD 240
Qy 241 AESQVGRGFRGWPGRRVNIDPFGAGRGPPAOLPGFDEGGGLRPXK 286
Db 241 AESQVGRGFRGWPGRRVNIDPFGAGRGPPAOLPGFDEGGGLRPXK 286

RESULT 4

US-09-072-596-82
; Sequence 82, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-072-596-82

Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
Db 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
Qy 61 YIXESGLARMGCGENIPFIYITVYNEPVYQPPENFDEBGVIGIYRYHAATEQRTNK 120
Db 61 YIXESGLARMGCGENIPFIYITVYNEPVYQPPENFDEBGVIGIYRYHAATEQRTNK 120
Qy 121 XQIIASGVAMPALRAAQMLAEWDVAADVWSVTSGELNRDGVITETKLRHDPDPAGV 180
Db 121 XQIIASGVAMPALRAAQMLAEWDVAADVWSVTSGELNRDGVITETKLRHDPDPAGV 180

Qy 181 PYTRALENARGVIAVSDMRAVPEQIRPWPVGTLLTGTDFGSDTRPAGRRYENTD 240
Db 181 PYTRALENARGVIAVSDMRAVPEQIRPWPVGTLLTGTDFGSDTRPAGRRYENTD 240
Qy 241 AESQVGRGFRGWPGRRVNIDPFGAGRGPPAOLPGFDEGGGLRPXK 286
Db 241 AESQVGRGFRGWPGRRVNIDPFGAGRGPPAOLPGFDEGGGLRPXK 286

RESULT 5

US-09-072-967-81
; Sequence 81, Application US/09072967
; Patent No. 6592877
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 81:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-072-967-81

Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
Db 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
Qy 61 YIXESGLARMGCGENIPFIYITVYNEPVYQPPENFDEBGVIGIYRYHAATEQRTNK 120
Db 61 YIXESGLARMGCGENIPFIYITVYNEPVYQPPENFDEBGVIGIYRYHAATEQRTNK 120
Qy 121 XQIIASGVAMPALRAAQMLAEWDVAADVWSVTSGELNRDGVITETKLRHDPDPAGV 180
Db 121 XQIIASGVAMPALRAAQMLAEWDVAADVWSVTSGELNRDGVITETKLRHDPDPAGV 180

QY		181	PVFTALLENARCPVIAVSMMRAVEPOIRPWVGITLTGTDSFGSDTEPARARYNTD	240
Db		181	PVFTALLENARCPVIAVSDDMAVEPQIRPWVGITLTGTDSFGSDFTRPAGRRYNTD	240
QY		241	AESOVGRGFGRCMPGRRVNIDPFAGARGPPAOLPGFDEGGCLRPXK	286
Db		241	AESOVGRGFGRCMPGRRVNIDPFAGARGPPAOLPGFDEGGCLRPXK	286

RESULT 6

US-10-193-002-82
Sequence 82, Application US/10193002
Patent No. 6949246
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonia
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Avenue, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-10-193-002-82

Query Match	99.8%	Score 1520;	DB 2;	length 286;
Best Local Similarity	100.0%	Pred. No. 2.3e-154;		
Matches 286;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	Db	Qy	Db
1	1	61	61
GDSFMAAADQMA	GDSFMAAADQMA	YIXESGLARMCGEN	YIXESGLARMCGEN
RGFGLGATAGCT	RGFGLGATAGCT	PNIFYYITVNEPV	PNIFYYITVNEPV
TTLTGEGLOADCH	TTLTGEGLOADCH	YQPEPNFDEGVL	YQPEPNFDEGVL
SLLDADTPNVA	SLLDADTPNVA	GGIYRHAATEORT	GGIYRHAATEORT
YVYDPAFYEIG	YVYDPAFYEIG	120	120
60	60		
1	1	61	61
GDSFMAAADQMA	GDSFMAAADQMA	YIXESGLARMCGEN	YIXESGLARMCGEN
RGFGLGATAGCT	RGFGLGATAGCT	PNIFYYITVNEPV	PNIFYYITVNEPV
TTLTGEGLOADCH	TTLTGEGLOADCH	YQPEPNFDEGVL	YQPEPNFDEGVL
SLLDADTPNVA	SLLDADTPNVA	GGIYRHAATEORT	GGIYRHAATEORT
YVYDPAFYEIG	YVYDPAFYEIG	120	120
60	60		

QY	123	XOILASGVMPALAAOMLAAEMDVADVWSVTSMELNRDGVILETEKLRHDPBAGV	180
Db	121	XOILASGVMPALAAOMLAAEMDVADVWSVTSMELNRDGVILETEKLRHDPBAGV	180
QY	181	PYTRALENARGPVLAVSDMMRAVDEQIRPMVPCGTYLTLDGDFGFSDTRPAGRRYENTD	240
Db	181	PYTRALENARGPVLAVSDMMRAVDEQIRPMVPCGTYLTLDGDFGFSDTRPAGRRYENTD	240
QY	241	ASQVGRGRCGMPGRARVNIIDPFAGRGPPNOLCGPBGCGGLRPRXK	286
Db	241	ASQVGRGRCGMPGRARVNIIDPFAGRGPPNOLCGPBGCGGLRPRXK	286

RESULT 7

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US-10-084-843-81
: Sequence 81, Application US/10084843
: Patent No. 6962710
:
: GENERAL INFORMATION:
: APPLICANT: Reed, Steven G.
:           Skelky, Yasir A.W.
:           Dillon, Davin C.
:           Campos-Neco, Antonio
:           Houghton, Raymond
:           Vedrick, Thomas S.
:           Twardzik, Daniel R.
:           Lodes, Michael J.
:           Hendrickson, Ronald C.
: TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
: AND DIAGNOSIS OF TUBERCULOSIS
:
: NUMBER OF SPOUNCES: 355
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SEDD and BERRY LLP
: STREET: 6300 Columbia Center, 701 Fifth Avenue
: CITY: Seattle
: STATE: Washington
: COUNTRY: USA
: ZIP: 98104-7092
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/10/084,843
: FILING DATE: 25-Feb-2002
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/09/072,967
: FILING DATE: 05-MAY-1998
: ATTORNEY/AGENT INFORMATION:
: NAME: Makl, David J.
: REGISTRATION NUMBER: 31,392
: REFERENCE/DOCKET NUMBER: 210121,411C9
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (206) 622-4900
: TELEFAX: (206) 682-6031
: INFORMATION FOR SEQ ID NO: 81:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 286 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: SEQUENCE DESCRIPTION: SEQ ID NO: 81:
:
: US-10-084-843-81

```

Query Match	99.8%	Score 1520;	DB 2;	Length 286;
Best Local Similarity	100.0%	Pred. NO. 2.3e-154;		
Matches 286;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy 1 GDSEMAADDMARGFVLGATAGRTTTLTGEGLOHADGHSLLDATTNPVAVAYDPAPAYEIG 600

Db 1 GDSFMAAADDMARGFVLGATAGRTTTLTGEGLOHADGHSLLDATTNPVAVAYDPAPAYEIG 600

QY 61 YIYESGLARMCGENPENIFYYITVNEPYVQPEPENFDEBGVIGIYRYHAATEQRTNK 120
| | | | |
Db 61 YIYESGLARMCGENPENIFYYITVNEPYVQPEPENFDEBGVIGIYRYHAATEQRTNK 120
| | | | |
QY 121 XQIIASGVAMPALRAAQMIAEMDVADVSVTSNGEINRDGVVETETKLRHPDRPAGV 180
| | | | |
Db 121 XQIIASGVAMPALRAAQMIAEMDVADVSVTSNGEINRDGVVETETKLRHPDRPAGV 180
| | | | |
QY 181 PYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNTD 240
| | | | |
Db 181 PYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNTD 240
| | | | |
QY 241 AESQVGRGFGRGWPGRRVNDIPFAGRGPPAOLPGFDEGGGLRFXK 286
| | | | |
Db 241 AESQVGRGFGRGWPGRRVNDIPFAGRGPPAOLPGFDEGGGLRFXK 286
| | | | |
RESULT 8
US-09-577-005-32
; Sequence 32, Application US/09577005
; Patent No. 6962805
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EIICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, AN
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AM
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Brevibacterium lactofermentum ATCC13869
US-09-577-005-32
Query Match 45.8%; Score 698; DB 2; Length 922;
Best Local Similarity 56.9%; Pred. No. 1.6e-65;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;
QY 1 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
Db 636 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
QY 61 YIYESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEBGVIGIYRYHAATEQRTN 119
| | | | |
Db 61 YIYESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEBGVIGIYRYHAATEQRTN 119
| | | | |
QY 696 HLYHRGIDRMVYGKGEKEDVYIYITVNEPTPPQAPPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
Db 696 HLYHRGIDRMVYGKGEKEDVYIYITVNEPTPPQAPPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
QY 120 XQIIASGVAMPALRAAQMIAEMDVADVSVTSNGEINRDGVVETETKLRHPDRPAG 179
| | | | |
Db 755 EANILASGVQWALKAASILEADYGVRAVYTSVWNLARDGAANKAQLRPPAGADAG 814
| | | | |
QY 180 VPYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNT 239
| | | | |
Db 815 EAFVYTLQKOTSGPYVAVSDFTDLPNQIREWVGDTYVIGADGFGSDTRPAPARRFNI 874
| | | | |

QY 240 DAESQV 245
| | | | |
Db 875 DAESIV 880
| | | | |
RESULT 9
US-09-577-005-34
; Sequence 34, Application US/09577005
; Patent No. 6962805
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EIICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, AN
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AM
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Brevibacterium lactofermentum ATCC13869
US-09-577-005-34
Query Match 45.8%; Score 698; DB 2; Length 922;
Best Local Similarity 56.9%; Pred. No. 1.6e-65;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;
QY 1 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
Db 636 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
QY 61 YIYESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEBGVIGIYRYHAATEQRTN 119
| | | | |
Db 61 YIYESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEBGVIGIYRYHAATEQRTN 119
| | | | |
QY 696 HLYHRGIDRMVYGKGEKEDVYIYITVNEPTPPQAPPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
Db 696 HLYHRGIDRMVYGKGEKEDVYIYITVNEPTPPQAPPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
QY 120 XQIIASGVAMPALRAAQMIAEMDVADVSVTSNGEINRDGVVETETKLRHPDRPAG 179
| | | | |
Db 755 EANILASGVQWALKAASILEADYGVRAVYTSVWNLARDGAANKAQLRPPAGADAG 814
| | | | |
QY 180 VPYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNT 239
| | | | |
Db 815 EAFVYTLQKOTSGPYVAVSDFTDLPNQIREWVGDTYVIGADGFGSDTRPAPARRFNI 874
| | | | |
QY 240 DAESQV 245
| | | | |
Db 875 DAESIV 880
| | | | |
RESULT 10
US-09-489-039A-12282
; Sequence 12282, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.2004001
 CURRENT APPLICATION NUMBER: US/09/489,039A
 CURRENT FILING DATE: 2000-01-27
 PRIOR APPLICATION NUMBER: US 60/117,747
 PRIOR FILING DATE: 1999-01-29
 NUMBER OF SEQ ID NOS: 14342
 SEQ ID NO 12282
 LENGTH: 892
 TYPE: PRT
 ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-12282

Query Match 35.9%; Score 546.5; DB 2; Length 892;
 Best Local Similarity 45.1%; Pred. No. 2,7e-49;
 Matches 120; Conservative 37; Mismatches 100; Indels 9; Gaps 5;

QY 1 GDSFMAADOMARGFVLATAGRTTTLTGEGLOHADGSHLLDANTPAVAYADPAFAVEIG 60
 DB 614 GDLMAAGDOAGFLIGTSGRTTLNGEGLQHDGSHLSQSLTIPNCISYDPAVAEVA 673
 QY 61 YXESGLARWCGENPENIFFYITVNEPVPYQPEPENFDEGVLGIGIRYHAAETEORTNK 120
 DB 674 VIMHDLGVRYGGAQENVYITLLENYHMPMPGAE-EGIRKGIYKLE-TIEGSKG 721
 QY 121 XQILASGVAMPALRAAOMLAEMDVADVWSTSGEINRDGVVETETKLRHPDRPAGV 180
 DB 732 VQILGSGSILRHVREAAEILAKDYGSDVYSTFTELARDQDCERMMMLHPLETPRV 791
 QY 181 PYTRLAENARGVIAVSDMRAVPEQIRPWPG-TYLTGTDGFGSPDTPRAGRFFNT 239
 DB 792 PYTAQVWMDA--PAVASTDMKLFAPQVRYTVPADRYVLGTGDFGRSDSRNLKHHFEV 849
 QY 240 DAEQVGRGFG---RGWPRGRVNIID 261
 DB 850 DASVYVVAALGELAKGEIDKVVAD 875

RESULT 11
 US-08-215-709-1
 Sequence 1, Application US/08215709
 Patent No. 5432071

GENERAL INFORMATION:
 APPLICANT: ICHIKAWA, Toshio
 APPLICANT: KOYAMA, Yasuji
 APPLICANT: OTAKE, Hideko
 APPLICANT: NAKANO, Eiichi
 TITLE OF INVENTION: Variant E1 Protein Gene For Pyruvate
 TITLE OF INVENTION: Dehydrogenase Complex And Variant E1 Protein Of Pyruvate
 TITLE OF INVENTION: Dehydrogenase Complex
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 STREET: 1300 I Street, N.W., Suite 700
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/215,709
 FILING DATE: 22-MAR-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Jean B. Fordis
 REGISTRATION NUMBER: 32,984
 REFERENCE/DOCKET NUMBER: 04853.0011-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000

TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 887 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-215-709-1

Query Match 35.8%; Score 544.5; DB 1; Length 887;
 Best Local Similarity 44.7%; Pred. No. 4.3e-49;
 Matches 119; Conservative 38; Mismatches 100; Indels 9; Gaps 5;

QY 1 GDSFMAADOMARGFVLATAGRTTTLTGEGLOHADGSHLLDANTPAVAYADPAFAVEIG 60
 DB 609 GDLMAAGDOAGFLIGTSGRTTLNGEGLQHDGSHLSQSLTIPNCISYDPAVAEVA 668
 QY 61 YXESGLARWCGENPENIFFYITVNEPVPYQPEPENFDEGVLGIGIRYHAAETEORTNK 120
 DB 669 VIMHDLGVRYGGAQENVYITLLENYHMPMPGAE-EGIRKGIYKLE-TIEGSKG 726
 QY 121 XQILASGVAMPALRAAOMLAEMDVADVWSTSGEINRDGVVETETKLRHPDRPAGV 180
 DB 727 VQILGSGSILRHVREAAEILAKDYGSDVYSTFTELARDQDCERMMMLHPLETPRV 786
 QY 181 PYTRLAENARGVIAVSDMRAVPEQIRPWPG-TYLTGTDGFGSPDTPRAGRFFNT 239
 DB 787 PYTAQVWMDA--PAVASTDMKLFAPQVRYTVPADRYVLGTGDFGRSDSRNLKHHFEV 844
 QY 240 DAEQVGRGFG---RGWPRGRVNIID 261
 DB 845 DASVYVVAALGELAKGEIDKVVAD 870

RESULT 12
 US-09-540-236-3586
 Sequence 3586, Application US/09540236
 Patent No. 6673910
 GENERAL INFORMATION:
 APPLICANT: Gary L. Breton et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATARRI
 FILE REFERENCE: 2709.2005-001
 CURRENT APPLICATION NUMBER: US/09/540,236
 CURRENT FILING DATE: 2000-04-04
 NUMBER OF SEQ ID NOS: 3840
 SEQ ID NO 3586
 LENGTH: 925
 TYPE: PRT
 ORGANISM: M. catarrhalis
 US-09-540-236-3586

Query Match 35.6%; Score 541.5; DB 2; Length 925;
 Best Local Similarity 45.9%; Pred. No. 9.7e-49;
 Matches 112; Conservative 39; Mismatches 86; Indels 7; Gaps 4;

QY 1 GDSFMAADOMARGFVLATAGRTTTLTGEGLOHADGSHLLDANTPAVAYADPAFAVEIG 60
 DB 616 GDLMAAGDOAGFLIGTSGRTTLNGEGLQHDGSHLSQSLTIPNCISYDPAVAEVA 675
 QY 61 YXESGLARWCGENPENIFFYITVNEPVPYQPEPENFDEGVLGIGIRYHAAETEORTNK 120
 DB 676 VIMHDLGVRYGGAQENVYITLLENYHMPMPGAE-EGIRKGIYKLE-TIEGSKG 720
 QY 121 XQILASGVAMPALRAAOMLAEMDVADVWSTSGEINRDGVVETETKLRHPDRPAGV 180
 DB 731 VQILGSGSILRHVREAAEILAKDYGSDVYSTFTELARDQDCERMMMLHPLETPRV 790
 QY 181 PYTRLAENARGVIAVSDMRAVPEQIRPWPG-TYLTGTDGFGSPDTPRAGRFFNT 238
 DB 791 PWTISQLASHKGIIVAAITDMRYSEQIRGMFLDPSRPYTLTGDFGRSDSRNLKHHFEV 850

QY 239 TDAB 242
Db 851 VNAB 854

RESULT 13

US-09-543-681A-4915
; Sequence 4915, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709,1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4915
; LENGTH: 897
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4915

Query Match 35.5%; Score 540.5; DB 2; Length 897;
Best Local Similarity 44.6%; Pred. No. 1,2e-48;
Matches 112; Conservative 39; Mismatches 95; Indels 5; Gaps 4;

QY 1 GDSFWAADQMGAFVIGATAGRTTLTGEGLOHADGSHLLDATTNPVAVAYDPAYEIG 60
Db 619 GDLMAAGDQAGFLIGTSGRTTLNGEGLOHEDGSHLSLTIPNCISYDPAYEVA 678
QY 61 YXESGLARMCENPEIFFYITVYNEPPYQPEPEPFDEGVIGIYRHAATEORTNK 120
Db 679 VIMODGLERMYGQKQENVYIYITLNNYHMPAMPAGAB-EGIRKGIYKLE-SLEGAKG 736
QY 121 XQIIASGVAMPALRAAQMLAEWDVADWVSTSMGLNRDGVITETKLRHPDRAGV 180
Db 737 VOLLGSGVILRVIKAAKILRDEYQHSNWSTSFELRLARDGACGEYRHLHABEVK 796
QY 181 PVTTRALENARGPVIAVSDWMAVPEQIRPWPG-TYLLTGDTGFGSDTRPAGRRYFNT 239
Db 797 PYIAQIMNDA--PAVASTDYMKLFABEQVRYTPADRYVLGTDFGSDSRKRLRHFEV 854
QY 240 DAEQVGRFG 250
Db 855 DTSYVIVPALG 865

RESULT 14

US-09-252-991A-32759
; Sequence 32759, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32759
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32759

Query Match 35.4%; Score 539.5; DB 2; Length 922;

Best Local Similarity 46.5%; Pred. No. 1.6e-48;
Matches 112; Conservative 33; Mismatches 93; Indels 3; Gaps 3;

QY 1 GDSFWAADQMGAFVIGATAGRTTLTGEGLOHADGSHLLDATTNPVAVAYDPAYEIG 60
Db 642 GDLMAAGDQAGFLIGTSGRTTLNGEGLOHEDGSHLSLTIPNCISYDPAYEVA 701
QY 61 YXESGLARMCENPEIFFYITVYNEPPYQPEPEPFDEGVIGIYRHAATEORTNK 120
Db 702 VIREGSGRWI-BEQODIFYIITVMENYVQAMPKGA-BGIRKGIYKLEEDKKEAHH 759
QY 121 XQIIASGVAMPALRAAQMLAEWDVADWVSTSMGLNRDGVITETKLRHPDRAGV 180
Db 760 VOLLGSGVILRVIKAAKILRDEYQHSNWSTSFELRLARDGACGEYRHLHABEVK 819
QY 181 PVTTRALENARGPVIAVSDWMAVPEQIRPWPG-TYLLTGDTGFGSDTRPAGRRYFNT 239
Db 820 SYVEECIGRRGVIASTDYMKLYAEQIRQWFSKEYKVLGTDFGSDSRKRLRHFEV 879
QY 240 D 240
Db 880 D 880

RESULT 15

US-09-328-352-6037
; Sequence 6037, Application US/093280352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6037
; LENGTH: 906
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6037

Query Match 33.4%; Score 509; DB 2; Length 906;
Best Local Similarity 45.9%; Pred. No. 2.8e-45;
Matches 112; Conservative 37; Mismatches 87; Indels 8; Gaps 6;

QY 1 GDSFWAADQMGAFVIGATAGRTTLTGEGLOHADGSHLLDATTNPVAVAYDPAYEIG 60
Db 606 GDIAWAGDAQAGFLIGTSGRTTLNGEGLOHEDGSHLSLTIPNCISYDPAYEVA 665
QY 61 YXESGLARMCENPEIFFYITVYNEPPYQPEPEPFDEGVIGIYRHAATEORTNK 120
Db 666 VIVHDIQRMV-VNQEVRFYITVMENYVQAMPKGA-BGIRKGIYKLE-KDEKAT-- 720
QY 121 XQIIASGVAMPALRAAQMLAEWDVADWVSTSMGLNRDGVITETKLRHPDRAGV 179
Db 721 VOLLGSGVILRVIKAAKILRDEYQHSNWSTSFELRLARDGACGEYRHLHABEVK 780
QY 180 PVTTRALENARGPVIAVSDWMAVPEQIRPWPG-TYLLTGDTGFGSDTRPAGRRYF 237
Db 781 ESWWSKQLRGTGEGIVSATDHMAVSEQIRAYLPDGRFVALGTGDTGSDTRALRSFF 840
QY 238 NTDA 241
Db 841 GVDA 844

Search completed: February 3, 2006, 17:02:25
Job time : 21.7683 secs

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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 71.3819 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672A-54

Perfect score: 5072
Sequence: 1 MGHHHHHVYIDIGTSPTSW.....RAWTEAVGNRRQDSKSK 983

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/ptodata/1/iaa/6.COMB.pep:*
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7: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2700	53.2	802	2	US-09-056-556-214 Sequence 214, App
2	2700	53.2	802	2	US-09-072-596-209 Sequence 209, App
3	2700	53.2	802	2	US-09-072-596-346 Sequence 346, App
4	2700	53.2	802	2	US-09-072-967-214 Sequence 214, App
5	2700	53.2	802	2	US-09-072-967-351 Sequence 351, App
6	2700	53.2	802	2	US-09-287-849-10 Sequence 10, Appl
7	2700	53.2	802	2	US-10-193-002-209 Sequence 209, App
8	2700	53.2	802	2	US-10-193-002-346 Sequence 346, App
9	2700	53.2	802	2	US-10-084-843-214 Sequence 214, App
10	2700	53.2	802	2	US-10-084-843-351 Sequence 351, App
11	2375	46.8	460	2	US-09-056-556-184 Sequence 184, App
12	2375	46.8	460	2	US-09-072-596-179 Sequence 179, App
13	2375	46.8	460	2	US-09-072-967-184 Sequence 184, App
14	2375	46.8	460	2	US-10-193-002-179 Sequence 179, App
15	2375	46.8	460	2	US-10-084-843-184 Sequence 184, App
16	1839	36.3	652	2	US-09-072-596-350 Sequence 350, App
17	1839	36.3	652	2	US-09-072-967-355 Sequence 355, App
18	1839	36.3	652	2	US-10-193-002-350 Sequence 350, App
19	1839	36.3	652	2	US-10-084-843-355 Sequence 355, App
20	1831	36.1	374	2	US-08-818-112-153 Sequence 153, App
21	1831	36.1	374	2	US-08-818-111-148 Sequence 148, App
22	1831	36.1	374	2	US-09-056-556-153 Sequence 153, App
23	1831	36.1	374	2	US-09-056-556-155 Sequence 155, App
24	1831	36.1	374	2	US-09-072-596-148 Sequence 148, App
25	1831	36.1	374	2	US-09-072-596-150 Sequence 150, App
26	1831	36.1	374	2	US-09-072-967-153 Sequence 153, App
27	1831	36.1	374	2	US-09-072-967-155 Sequence 155, App

28	1831	36.1	374	2	US-09-287-849-6 Sequence 6, Appl
29	1831	36.1	374	2	US-09-287-849-40 Sequence 40, Appl
30	1831	36.1	374	2	US-10-193-002-148 Sequence 148, App
31	1831	36.1	374	2	US-10-193-002-150 Sequence 150, App
32	1831	36.1	374	2	US-10-084-843-153 Sequence 153, App
33	1831	36.1	374	2	US-10-084-843-155 Sequence 155, App
34	1829	36.1	373	2	US-09-118-426-5 Sequence 5, Appl
35	1820	35.9	351	2	US-09-118-426-6 Sequence 6, Appl
36	791	15.6	166	2	US-08-818-112-89 Sequence 89, Appl
37	791	15.6	166	2	US-08-818-111-90 Sequence 90, Appl
38	791	15.6	166	2	US-09-056-556-89 Sequence 89, Appl
39	791	15.6	166	2	US-09-072-596-90 Sequence 90, Appl
40	791	15.6	166	2	US-09-072-967-89 Sequence 89, Appl
41	791	15.6	166	2	US-10-193-002-90 Sequence 90, Appl
42	791	15.6	166	2	US-10-084-843-89 Sequence 89, Appl
43	485	9.6	100	2	US-08-818-112-115 Sequence 115, App
44	485	9.6	100	2	US-08-818-111-110 Sequence 110, App
45	485	9.6	100	2	US-09-056-556-115 Sequence 115, App

ALIGNMENTS

RESULT 1
US-09-056-556-214
Sequence 214, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEDD and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Markl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 214:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-214
Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHHHHHVYIDIGTSPTSWEOAAAEVORARSPVDDIRVAVTEQMAVDSACKITRYI 60
DB 1 MGHHHHHVYIDIGTSPTSWEOAAAEVORARSPVDDIRVAVTEQMAVDSACKITRYI 60
QY 61 KLEVSFMRAPDRCSKPPSGSPETGAGATVATTPASSPVTLAETGSTALLVPLFMWNG 120

TREATM

```

Db      61 KLEVSFMRPAQR--GSKPPSGSPETGAGTVAATTASSPVTLAETGSLTLYLFLNMG 119
Qy      121 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITALISA 180
Db      120 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITALISA 179
Qy      181 QOVNVMIPGSEHLKNGKYLAAAYOGTITKWDPOIAALNPGVNLPGTAVVPLHRSBG 240
Db      180 QOVNVMIPGSEHLKNGKYLAAAYOGTITKWDPOIAALNPGVNLPGTAVVPLHRSBG 239
Qy      241 GDTFLFTQYISKODPEGMGKSPGFTTVDPFPAVPGALGNGNGMTGCAETPGCVAYIG 300
Db      240 GDTFLFTQYISKODPEGMGKSPGFTTVDPFPAVPGALGNGNGMTGCAETPGCVAYIG 299
Qy      301 ISFLDQASQRLGEBAGLGNSSGNFLPDAOSIQAAAAGFASKTPANOAISMIDGPAVDG 360
Db      300 ISFLDQASQRLGEBAGLGNSSGNFLPDAOSIQAAAAGFASKTPANOAISMIDGPAVDG 359
Qy      361 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDOVHFQPLPPAVVLSDALI 420
Db      360 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDOVHFQPLPPAVVLSDALI 419
Qy      421 ATISSAEMKTDATLAEAGNFERISGDLKTQIDOVSTAGSLQOGWRGAAGTAAQAAV 480
Db      420 ATISSAEMKTDATLAEAGNFERISGDLKTQIDOVSTAGSLQOGWRGAAGTAAQAAV 479
Qy      481 RFOEANKKQKQELDEISTNRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELNLR 540
Db      480 RFOEANKKQKQELDEISTNRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELNLR 537
Qy      541 ANEVEAPMDPDPDVTTPCELTAAKNAQOQLVLSANMREYLAAGAKERQRLATSLRNA 600
Db      538 PPAATFVAPPAAANTPVAQCPDPNAAPPADPNAPPPVLAIPNAPQVPR----- 589
Qy      601 AKAYGEVDEBAATVLDNDGEGTVOAESAGAVGDS-----SAELTTPPVATAGBNPF- 653
Db      590 -----IDPVGGSFALPAGVNESDAAFDYGSAIS-----KTTGDDPPF 630
Qy      654 -----MDLEAKAKLETGDOGASLAFADGWNFTLTLQGDVNRFRGFD 697
Db      631 GQPPVANDTRIVLGRDQCLVYASABATDSKAA-----RLSDMEF--YM 675
Qy      698 NMEGDAATACEASLDQORQWILHMAKLSAAMAKOQVVAQLHVARREHPTVEDYGLER 757
Db      676 PYGTRINQETVSD-----ANGVSGSASYEVKFSKPNQGLWIGVIGSPA 724
Qy      758 LVNENPSARQIILPVYAEYQORSEKVLTEYNN-----KALEPVNP-PKPPAATIDP 809
Db      725 ANAPDAGPPQKRWIVV-----LGTANNPVDKGAALALAESIRPLVAPPPA---P 770
Qy      810 PPPPOGGLIPGLMPPSDSGVTPGTMPAAPVPTGSPGGGLPA 856
Db      771 APAPAPBA-----PAPAPAGEVAP-----TPPTTPPQRLPA 802

RESULT 2
US-09-072-596-209
; Sequence 209, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Campos-Neco, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSER: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 209:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-072-596-209

Query Match      53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.4%; Pred. No.2.6e-187; Indels 116; Gaps 15;
Matches 591; Conservative 27; Mismatches 153;

Qy      1 MGHNNHHNVIDIIGTSPTSEWQAAAEAVORARDVDDIRVARYIEQMAVDSAGKITRYI 60
Db      1 MGHNNHHNVIDIIGTSPTSEWQAAAEAVORARDVDDIRVARYIEQMAVDSAGKITRYI 60
Qy      61 KLEVSFMRPAQR--GSKPPSGSPETGAGTVAATTASSPVTLAETGSLTLYLFLNMG 120
Db      61 KLEVSFMRPAQR--GSKPPSGSPETGAGTVAATTASSPVTLAETGSLTLYLFLNMG 119
Qy      121 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITALISA 180
Db      120 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITALISA 179
Qy      181 QOVNVMIPGSEHLKNGKYLAAAYOGTITKWDPOIAALNPGVNLPGTAVVPLHRSBG 240
Db      180 QOVNVMIPGSEHLKNGKYLAAAYOGTITKWDPOIAALNPGVNLPGTAVVPLHRSBG 239
Qy      241 GDTFLFTQYISKODPEGMGKSPGFTTVDPFPAVPGALGNGNGMTGCAETPGCVAYIG 300
Db      240 GDTFLFTQYISKODPEGMGKSPGFTTVDPFPAVPGALGNGNGMTGCAETPGCVAYIG 299
Qy      301 ISFLDQASQRLGEBAGLGNSSGNFLPDAOSIQAAAAGFASKTPANOAISMIDGPAVDG 360
Db      300 ISFLDQASQRLGEBAGLGNSSGNFLPDAOSIQAAAAGFASKTPANOAISMIDGPAVDG 359
Qy      361 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDOVHFQPLPPAVVLSDALI 420
Db      360 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDOVHFQPLPPAVVLSDALI 419
Qy      421 ATISSAEMKTDATLAEAGNFERISGDLKTQIDOVSTAGSLQOGWRGAAGTAAQAAV 480
Db      420 ATISSAEMKTDATLAEAGNFERISGDLKTQIDOVSTAGSLQOGWRGAAGTAAQAAV 479
Qy      481 RFOEANKKQKQELDEISTNRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELNLR 540
Db      480 RFOEANKKQKQELDEISTNRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELNLR 537
Qy      541 ANEVEAPMDPDPDVTTPCELTAAKNAQOQLVLSANMREYLAAGAKERQRLATSLRNA 600
Db      538 PPAATFVAPPAAANTPVAQCPDPNAAPPADPNAPPPVLAIPNAPQVPR----- 589

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QY 601 AKAYGEVDEBAATLNDGEGTVOAESAGAVGDS-----SABLTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGFSFALPAGWESDAAHFDYGSALLS-----KTGGDPFP 630
 QY 654 -----MDLKEARKLETGOGASLAHFDGWTFTNLTLQGVKRFEGFD 697
 Db 631 GQPPVANDTRIVLGRDLQKLYASAEATDSKAA-----RLGSDMGCF--YM 675
 QY 698 NMGEDATACEASLDQGRWILHMAKLSAAMAKQAQVVAQLHWAREHPTIEDIVGLER 757
 Db 676 PYPTRIQNETVSLD-----ANGVSGASYEVEKFSDDSKNGQIWTGVISPA 724
 QY 758 LVANPSARDQILPVYAEOORSEKVLTEYNN-----KAALBPVNP-KPAPPARIDP 809
 Db 725 ANAPDAGPQGRWVW-----LGTANNPVDKGAALALAESIRPLVAPPPA-----P 770
 QY 810 PPPQEGGLIPGFLMPPSDSGVTPTGTMPAPMVPPTGSPGGGLPA 856
 Db 771 APAPABPA-----PAPAPAGEVAP-----TPTTPTPQRTLLPA 802

RESULT 3

US-09-072-596-346
 ; Sequence 346, Application US/09072596
 ; Patent No. 6458366
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Campos-Neto, Antonio
 ; APPLICANT: Houghton, Raymond
 ; APPLICANT: Vedick, Thomas S.
 ; APPLICANT: Twardzik, Daniel R.
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Hendricksen, Ronald C.
 ; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
 ; NUMBER OF SEQUENCES: 350
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SEED and BERRY LLP
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue
 ; CITY: Seattle
 ; STATE: Washington
 ; COUNTRY: USA
 ; ZIP: 98104-7092
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/072.596
 ; FILING DATE: 05-MAY-1998
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Maki, David J.
 ; REGISTRATION NUMBER: 31,392
 ; REFERENCE/DOCKET NUMBER: 210121.417C9
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 622-4900
 ; TELEFAX: (206) 682-6031
 ; INFORMATION FOR SRO ID NO: 346:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 802 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-072-596-346

Query Match 53.2%; Score 2700; DB 2; Length 802;
 Best Local Similarity 66.6%; Pred. No. 2.6e-187;
 Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHHHHHVIDIIGTSPTSWEQAAAEAVORARSDVDIRVAVIIEQMAVDSAGKITRYI 60
 Db 1 MGHHHHHVIDIIGTSPTSWEQAAAEAVORARSDVDIRVAVIIEQMAVDSAGKITRYI 60
 QY 61 KLEVSFPMRAOPRCSPGSGSPETGAGCTVATTASSPVTIAETGSLTLYLFNLWG 120
 Db 61 KLEVSFPMRAOPRCSPGSGSPETGAGCTVATTASSPVTIAETGSLTLYLFNLWG 119
 QY 121 PAFHERYENVTTIAQCGSGAGTAAAGVNNIGASDAVYISEGMAAHKGLMNTALISA 180
 Db 120 PAFHERYENVTTIAQCGSGAGTAAAGVNNIGASDAVYISEGMAAHKGLMNTALISA 179
 QY 181 QQVYNNLPVSEHLKTLNGKTLAAMYQSTIKTWDDPQIAALNPGVNLPGTAVPLHRS DGS 240
 Db 180 QQVYNNLPVSEHLKTLNGKTLAAMYQSTIKTWDDPQIAALNPGVNLPGTAVPLHRS DGS 239
 QY 241 GDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVPAGALGENGGMVTGCAETPCVAYIG 300
 Db 240 GDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVPAGALGENGGMVTGCAETPCVAYIG 299
 QY 301 ISFLDQASQRLGAEQAGNSGNFLPDAOSIQAAAAGFASKTPANQAIMIGPADGY 360
 Db 300 ISFLDQASQRLGAEQAGNSGNFLPDAOSIQAAAAGFASKTPANQAIMIGPADGY 359
 QY 361 PIINVEYAIYNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFQPLPAVVVLSDALI 420
 Db 360 PIINVEYAIYNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFQPLPAVVVLSDALI 419
 QY 421 ATISSAEMKTDATLAGEAGNFERISGDLTQIDQVSTAGSLQGMGAGTAQAQAVV 480
 Db 420 ATISSAEMKTDATLAGEAGNFERISGDLTQIDQVSTAGSLQGMGAGTAQAQAVV 479
 QY 481 RFOBAANKQOEIDEISTNIRQAGVQSRADDEQQALSSQMGFTSQTYVNDQOELINR 540
 Db 480 RFOBAANKQOEIDEISTNIRQAGVQSRADDEQQALSSQMGFTSQTYVNDQOELINR 537
 QY 541 ANEVEAPMADPPTDVPITPCELTAAKVAQQLVLSADNMMEBYLAAGAKERORLATSLRNA 600
 Db 538 PPAPATTVAPPAPAAANTPAAQPDPPAAPPAPDPNAPPPVIAFNAPQVYR----- 589
 QY 601 AKAYGEVDEBAATLNDGEGTVOAESAGAVGDS-----SABLTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGFSFALPAGWESDAAHFDYGSALLS-----KTGGDPFP 630
 QY 654 -----MDLKEARKLETGOGASLAHFDGWTFTNLTLQGVKRFEGFD 697
 Db 631 GQPPVANDTRIVLGRDLQKLYASAEATDSKAA-----RLGSDMGCF--YM 675
 QY 698 NMGEDATACEASLDQGRWILHMAKLSAAMAKQAQVVAQLHWAREHPTIEDIVGLER 757
 Db 676 PYPTRIQNETVSLD-----ANGVSGASYEVEKFSDDSKNGQIWTGVISPA 724
 QY 758 LVANPSARDQILPVYAEOORSEKVLTEYNN-----KAALBPVNP-KPAPPARIDP 809
 Db 725 ANAPDAGPQGRWVW-----LGTANNPVDKGAALALAESIRPLVAPPPA-----P 770
 QY 810 PPPQEGGLIPGFLMPPSDSGVTPTGTMPAPMVPPTGSPGGGLPA 856
 Db 771 APAPABPA-----PAPAPAGEVAP-----TPTTPTPQRTLLPA 802

RESULT 4

US-09-072-967-214
 ; Sequence 214, Application US/09072967
 ; Patent No. 6592877
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Campos-Neto, Antonio
 ; APPLICANT: Houghton, Raymond
 ; APPLICANT: Vedick, Thomas S.

APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEO ID NO: 214:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-214

Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGNHHNHVVDIGTSPSTWEOAAEAIVORARDSDVDIRAVRVEOMANDSACKITRYI 60
DB 1 MGNHHNHVVDIGTSPSTWEOAAEAIVORARDSDVDIRAVRVEOMANDSACKITRYI 60
QY 61 KLEVSFMRPAOPRCSPSGSPETGAGATVATTPASSPVLTAETGTLTYPLFMIMG 120
DB 61 KLEVSFMRPAOPRCSPSGSPETGAGATVATTPASSPVLTAETGTLTYPLFMIMG 119
QY 121 PAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGMINTALISA 180
DB 121 PAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGMINTALISA 179
QY 181 QOVNVMNPGVSEHKLNGKYLAAVYOGTITKWDPOJLAALNPGVNLGTVAVPLHRSDDS 240
DB 181 QOVNVMNPGVSEHKLNGKYLAAVYOGTITKWDPOJLAALNPGVNLGTVAVPLHRSDDS 239
QY 241 GDTFLFTQVLSKODPEGMGKSPFGTIVDPFAVPALGNGNGAMVGCJETPCGVAYIG 300
DB 241 GDTFLFTQVLSKODPEGMGKSPFGTIVDPFAVPALGNGNGAMVGCJETPCGVAYIG 299
QY 301 ISFLDQASQGLGEAOUGNSGNFLPDAOSIQAAAAGFASKTPANQAISMIDPAPDGY 360
DB 301 ISFLDQASQGLGEAOUGNSGNFLPDAOSIQAAAAGFASKTPANQAISMIDPAPDGY 359
QY 361 PIINVEYAIYNNRQKDAATQTLQAFIHMATTDENKASFLDQVHFQPLPRAVVKLSALI 420
DB 361 PIINVEYAIYNNRQKDAATQTLQAFIHMATTDENKASFLDQVHFQPLPRAVVKLSALI 419
QY 421 ATISSAMKTDATLTAQEAQNFERSGDLKTQIDQVSTAGSLQGMKGAAAGTAQAAYV 480
DB 421 ATISSAMKTDATLTAQEAQNFERSGDLKTQIDQVSTAGSLQGMKGAAAGTAQAAYV 479

QY 481 RFOEANKOKOEIDETSTNRQAGVOYSRADDEOQALSSOMFGTQVTVVQOQELINR 540
DB 480 RFOEANKOKOEIDETSTNRQAGVOYSRADDEOQALSSOMFGV--PTTAASPPSTAA 537
QY 541 ANEVEAPMADPTDVPITPCLETAAKYAAQOLVLSADNMEYVLAAGAKERQRLATSLRNA 600
DB 538 PPAATVPAAPPAAANTPAAQODPRAAPPDPANAPPPVIAAPNAPQVR----- 589
QY 601 AKAYGEVDEBAATLNDGEGTVQAESAGAVGDS-----SALDTTPVATAGEBNF- 653
DB 590 -----IDNPVGFSSFALPAGWESDAHFVGYSAALS-----KTGDDPPF 630
QY 654 -----MDLKAARKLETGQGSALHAFADGNTFNLTLOGDYKRFPGFD 697
DB 631 GQPPVANDTRIVLGRDQTLVSAEATDSKAA-----RLSDMGEF--YM 675
QY 698 NWEGDATAACEASIDQORQWILHMAKLSAMAKOQVLAOLHWARRHPTEYEDVGLER 757
DB 676 PYGTRINQETVSLD-----ANGVSGASYTEVKFSPSPKNGQIMTCVIGSPA 724
QY 758 LYAENPSARDQILPYVAEYQORSEKVLTEYNN-----KALEPVNP-EKPPPAIKIDP 809
DB 725 ANAPDAGPPQRMFWVW-----LGTANNPVDKGAALAESIRPLVAPPAP-----P 770
QY 810 PPPPOEGGLIPGFLMPPSDGCVTPGTGMPAAMVPPTPSGGGGLPA 856
DB 771 APAPAEPA-----PAPAPAGEVAF-----TPPTPPTORTLPA 802

RESULT 5

US-09-072-967-351
Sequence 351, Application US/09072967
Patent No. 6592877

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEO ID NO: 351:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-967-351

Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

```

QY 1 MGHNNHHVVDIIGTSPTSEWQAAAEVQARAVSDIRARVYEDMAVDSAGKITRYI 60
DB 1 MGHNNHHVVDIIGTSPTSEWQAAAEVQARAVSDIRARVYEDMAVDSAGKITRYI 60
QY 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 120
DB 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 119
QY 121 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 180
DB 120 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 179
QY 181 QOVNYYLPGVSEHLKNGKTLAAMYQGTITKWDPOIAALNPGVNLPGTAVVPLHRS DGS 240
DB 180 QOVNYYLPGVSEHLKNGKTLAAMYQGTITKWDPOIAALNPGVNLPGTAVVPLHRS DGS 239
QY 241 GDTFFLTQVYSKODPEGMGKSPGFGTTVDPPAVPGALGNGNGMTGCAETPGCVAYIG 300
DB 240 GDTFFLTQVYSKODPEGMGKSPGFGTTVDPPAVPGALGNGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 360
DB 300 ISFLDQASQGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 359
QY 361 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 420
DB 360 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 419
QY 421 ATISSAEMKTDATTLAQAENFERISGDLKTQIDOVSTAGSLQGWRAAGTAQAQAVV 480
DB 420 ATISSAEMKTDATTLAQAENFERISGDLKTQIDOVSTAGSLQGWRAAGTAQAQAVV 479
QY 481 RFOEANKKQKQBLDEISTNIRQAGVOYSRADDECOQALSSOMGFOSQTVTVDOQETLNR 540
DB 480 RFOEANKKQKQBLDEISTNIRQAGVOYSRADDECOQALSSOMGFV--PTTAA SPSTAAA 537
QY 541 ANEVEAPMADPTDVPITPCELTAANKXAQQLVLSADNMEYLAAGAKERQRLATSLRNA 600
DB 538 PPAAPATPVPAPPPAANTPNAOPGDPNAAPPPADPNAPPPVLAIPNAPQVVR----- 589
QY 601 AKAYGEVDEAATAALNDGSGTQVABESAGAVGDS-----SAELTTPRAVATAGEPNF- 653
DB 590 -----INDPVGGFSFALPAGWVESDAAHFDYGSALLS-----KTTGDPPFP 630
QY 654 -----MDLKEARKLETGDOGASLAHFADQWMTFNLTLQGVYKRFPGFD 697
DB 631 GQPPPAANDTRITVLGRIDQKLYASAEATDSKAAA-----RLSSDMSGF--YM 675
QY 698 NMEGDATACASLIDQOROWILHMAKLSAAMAKQAYVAQLHWARRRHPHYEDVIGLER 757
DB 676 PYGTHINQETVSLD-----ANGVSGSASYEVKFSDBPSKNGQIMVGVISPA 724
QY 758 LYAENSARQIILPYVAEYQORSEKULTTEYNN-----KAALEPNV-PKPPPAITDP 809
DB 725 ANAPDAGPPQRMWVW-----LGTANNPVDKGAALAESTRPLVAPPPA---P 770
QY 810 PPPQEQGLIPGFLMPPSDSGVTPGTMPAPAPVPPPGGGLPA 856
DB 771 APAPAPBA-----PAPAPAGVAP-----TPTTPPQRTLPA 802

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RESULT 6
US-09-287-849-10
; Sequence 10, Application US/09287849

```

; Patent No. 6627198
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: And Their Uses
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287,849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:tetra-fusion
US-09-287-849-10

```

Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

```

QY 1 MGHNNHHVVDIIGTSPTSEWQAAAEVQARAVSDIRARVYEDMAVDSAGKITRYI 60
DB 1 MGHNNHHVVDIIGTSPTSEWQAAAEVQARAVSDIRARVYEDMAVDSAGKITRYI 60
QY 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 120
DB 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 119
QY 121 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 180
DB 120 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 179
QY 181 QOVNYYLPGVSEHLKNGKTLAAMYQGTITKWDPOIAALNPGVNLPGTAVVPLHRS DGS 240
DB 180 QOVNYYLPGVSEHLKNGKTLAAMYQGTITKWDPOIAALNPGVNLPGTAVVPLHRS DGS 239
QY 241 GDTFFLTQVYSKODPEGMGKSPGFGTTVDPPAVPGALGNGNGMTGCAETPGCVAYIG 300
DB 240 GDTFFLTQVYSKODPEGMGKSPGFGTTVDPPAVPGALGNGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 360
DB 300 ISFLDQASQGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 359
QY 361 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 420
DB 360 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 419
QY 421 ATISSAEMKTDATTLAQAENFERISGDLKTQIDOVSTAGSLQGWRAAGTAQAQAVV 480
DB 420 ATISSAEMKTDATTLAQAENFERISGDLKTQIDOVSTAGSLQGWRAAGTAQAQAVV 479
QY 481 RFOEANKKQKQBLDEISTNIRQAGVOYSRADDECOQALSSOMGFOSQTVTVDOQETLNR 540
DB 480 RFOEANKKQKQBLDEISTNIRQAGVOYSRADDECOQALSSOMGFV--PTTAA SPSTAAA 537

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QY 541 ANEVEAPMADPPTDVITPCELTAAKNAQOVLASDNMEYLAAGKERORLATSIKNA 600
 Db 538 PPAPATPVAPPAAANTPAAQCPDPAAPPADPNAAPPPVIAAPNAQFVR-----589
 QY 601 AKAYGEVDEBAATLALNDGEGTVQAESAGAVGDS-----SAELTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGGFSPALPAGWVESDAAHFDYGSALLS-----KTTGDPFP 630
 QY 654 -----MDLKEARKLETGDOGASLAHFAFGMNTFNLTLOGDYKFRGFD 697
 Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDMGEF--YM 675
 QY 698 NMEGDATACEASLDQORQWILHMAKLSAMAKQAQVYAQLHWAREHPTIEDIVLER 757
 Db 676 PYGTRINGETVSLD-----ANGVSGSASYEVKSPDSKPNQIWTGVIGSPA 724
 QY 758 LVNENPSARDQILPVYAEOQORSEKVLTEYNN-----KAALFVNP-PKPPPAIKIDP 809
 Db 725 ANAPDAGPPQRMVFW-----LGTANNPVDKGAAKALAESIRPLVAPPRA----P 770
 QY 810 PPPPOGGLIPGLMPSPDSSGVTPTGMPAAMPVPTGSPGGGLPA 856
 Db 771 APAPABPA-----PAPAPAGEVAP-----TPTTPTPQRTLPA 802

RESULT 7
US-10-193-002-209

; Sequence 209, Application US/10193002
 ; Patent No. 6949246

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
 Skelky, Yasir A.W.
 Dillon, Davin C.
 Campos-Neco, Antonia
 Houghton, Raymond
 Vedrick, Thomas S.
 Twardzik, Daniel R.
 Lodes, Michael J.
 Hendrickson, Ronald C.
 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
 TUBERCULOSIS
 NUMBER OF SEQUENCES: 350
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: USA
 ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/193.002
 FILING DATE: 10-Jul-2002
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/072.596
 FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.
 REGISTRATION NUMBER: 31,392
 REFERENCE/DOCKET NUMBER: 210121.417C9
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 209:

SEQUENCE CHARACTERISTICS:
 LENGTH: 802 amino acids
 TYPE: amino acid
 STRANDEDNESS: single

TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 209:
 US-10-193-002-209

Query Match 53.2%; Score 2700; DB 2; Length 802;
 Best local Similarity 66.6%; Pred. No. 2,6e-187;
 Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHVHVIDITGSPTSWEQAAEAQVARDSDVDIRVARIEDMAVDSAGKTTYRI 60
 Db 1 MGHNNHHVHVIDITGSPTSWEQAAEAQVARDSDVDIRVARIEDMAVDSAGKTTYRI 60
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 Db 61 KLEVSFRMPAPQRCGSKPSPSGSPETGAGATVATTPASSPVTLAETGSLTLPFLNMG 119
 QY 121 PAFHERYPNVTITTAQGTSGAGIQAQAAGTVNIGASDAYLSEGDMAHKGNIALAISA 180
 Db 120 PAFHERYPNVTITTAQGTSGAGIQAQAAGTVNIGASDAYLSEGDMAHKGNIALAISA 179
 QY 181 QQVNNVLPVSEHLKLNKYLAAHYGTTKTWDDPQIALNPGVNPFGTAVVPLHRS DGS 240
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 Db 240 GDTFELFTQYLSKODPBGWKGSPGFGTTVDPPAPGALGNGNGMTGCAETPGCVAYIG 299
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 QY 361 PIINYEYAIVNNRQKDAATQTLQAFLLHMAITDGNKASFLDQVHFQPLPVA VYKLSDALI 420
 Db 360 PIINYEYAIVNNRQKDAATQTLQAFLLHMAITDGNKASFLDQVHFQPLPVA VYKLSDALI 419
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 Db 420 ATISSAEMKTDATLTAQEAENFERISGDLKTOIDQVESTGSIQCGWRGAAGTAQAAYV 479
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 Db 480 RFOEANKKOKEIDESTNIRQAGVOYSPRADEQQOALSQSGFTV--PTTAAAPPTAA 537
 QY 541 ANEVEAPMADPPTDVITPCELTAAKNAQOVLASDNMEYLAAGKERORLATSIKNA 600
 Db 538 PPAPATPVAPPAAANTPAAQCPDPAAPPADPNAAPPPVIAAPNAQFVR-----589
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 Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDMGEF--YM 675
 QY 698 NMEGDATACEASLDQORQWILHMAKLSAMAKQAQVYAQLHWAREHPTIEDIVLER 757
 Db 676 PYGTRINGETVSLD-----ANGVSGSASYEVKSPDSKPNQIWTGVIGSPA 724
 QY 758 LVNENPSARDQILPVYAEOQORSEKVLTEYNN-----KAALFVNP-PKPPPAIKIDP 809
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 QY 810 PPPPOGGLIPGLMPSPDSSGVTPTGMPAAMPVPTGSPGGGLPA 856
 Db 771 APAPABPA-----PAPAPAGEVAP-----TPTTPTPQRTLPA 802

RESULT 8

US-10-193-002-346
 ; Sequence 346, Application US/10193002
 ; Patent No. 6949246

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4990
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 346:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 346:
US-10-193-002-346
Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

301 ISFLDQASQGLGEBAGLGNSSGNFLPDAQSIQAAAAGFASKTPANQAIIMIDGAPDGY 360
300 ISFLDQASQGLGEBAGLGNSSGNFLPDAQSIQAAAAGFASKTPANQAIIMIDGAPDGY 359
361 PIINVEYAIYNNQKDAATQTLQAFILHMAITGNTKSPFDQVHFQPLPAVYVLSALI 420
360 PIINVEYAIYNNQKDAATQTLQAFILHMAITGNTKSPFDQVHFQPLPAVYVLSALI 419
421 ATISSAEMKTDATLQAGNFERISGDLTKQIDQVETSGSLQGGWGAAGTAQAQAVV 480
420 ATISSAEMKTDATLQAGNFERISGDLTKQIDQVETSGSLQGGWGAAGTAQAQAVV 479
481 RPEAANKQKQELDEISTNIRQAGVYRADDEQQAASSQMGFTQSVTVVDDQELNR 540
480 RPEAANKQKQELDEISTNIRQAGVYRADDEQQAASSQMGFTQSVTVVDDQELNR 537
541 ANEYEAAMDPPDVPITTPCELTAKRAAQOLVLSADNMEYLAAGKEXORLATSLRNA 600
538 PPAPATVPAPPAPPAANTPNAQPGDPNAPPPADPNAPPPVIAFNAPQVPR----- 589
601 AKAYGEVDEBAATVLDNDGEGTVQAESGAVGDS-----SAELTDPRTVATGEPNF- 653
590 -----IDNPVGGFSFALPAGWVESDAHFVYGSALLS-----KTTGDPFPF 630
654 -----NDLKEARKLETGQGSALHAFADQWNTFNLTLOGDYVRRFRGFD 697
631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLSDMEF--YM 675
698 NMBGDAATCEASLDQQRQWILHMAKLSAAMAKQAVQAOLHWAREHPYEDIVGLER 757
676 PYRGTIRNGEVSID-----ANGVSGSASYEVEFSDPSKPNQIWTGVISPA 724
758 LVANPBARQOLIPYVAEYQORSKVLTEYNN-----KALEPVP-P-EKPPAIKIDP 809
725 ANPADGPPQRFVYVW-----LGTANNPVDKAALAEISIPVLAAPP-----P 770
810 PPPPOGCLIPFLMPPSDSGVTPTGMPAPAPVPTGSPGGGLPA 856
771 AP 802
RESULT 9
US-10-084-843-214
Sequence 214, Application US/10084843
Patent No. 6962710
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002

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; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072.967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 214:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 214:
US-10-084-843-214

Query Match      53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHVVDIGTSPTEWQAABAVQPARDSVDDIRVARYIEODMAVDSAGKITRYI 60
DB 1 MGHNNHHVVDIGTSPTEWQAABAVQPARDSVDDIRVARYIEODMAVDSAGKITRYI 60
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DB 61 KLEVSFMRPAOPRGSGSPETGAGATVATTPASSPVTLAEFGSTLLYLPLNMG 119
QY 61 KLEVSFMRPAOPRGSGSPETGAGATVATTPASSPVTLAEFGSTLLYLPLNMG 119
DB 61 KLEVSFMRPAOPRGSGSPETGAGATVATTPASSPVTLAEFGSTLLYLPLNMG 119
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QY 361 PIINVEYAIYNNRQDAATQTLQAFILHMAITDENKASFLDVHFOPLPPAVVYLSALI 420
DB 361 PIINVEYAIYNNRQDAATQTLQAFILHMAITDENKASFLDVHFOPLPPAVVYLSALI 419
QY 360 PIINVEYAIYNNRQDAATQTLQAFILHMAITDENKASFLDVHFOPLPPAVVYLSALI 419
DB 360 PIINVEYAIYNNRQDAATQTLQAFILHMAITDENKASFLDVHFOPLPPAVVYLSALI 419
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DB 421 ATISSAMKTDAAFLAEOAGNFERISGDLKTQIDOVESTAGSLGOWRGAAGTAQAQAVV 479
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DB 420 ATISSAMKTDAAFLAEOAGNFERISGDLKTQIDOVESTAGSLGOWRGAAGTAQAQAVV 479
QY 481 RFOEAAKQOELEISTINIRQAGVOYSRADDEOQALSSOMGFTOSQTVVDOOEILNR 540
DB 481 RFOEAAKQOELEISTINIRQAGVOYSRADDEOQALSSOMGFTOSQTVVDOOEILNR 537
QY 480 RFOEAAKQOELEISTINIRQAGVOYSRADDEOQALSSOMGFTV--PTTAASPPSTAAA 537
DB 480 RFOEAAKQOELEISTINIRQAGVOYSRADDEOQALSSOMGFTV--PTTAASPPSTAAA 537
QY 541 ANEYEAEMADBPDPVPTTPECELTAKNAQOQLVLSADNMREYLAAGAKEROLATSLRNA 600
DB 541 ANEYEAEMADBPDPVPTTPECELTAKNAQOQLVLSADNMREYLAAGAKEROLATSLRNA 600
QY 538 PPAATPVPAPPFPAANTPNAQPDPAAPPAADPNAAPPVIAFNAAPQVR----- 589
DB 538 PPAATPVPAPPFPAANTPNAQPDPAAPPAADPNAAPPVIAFNAAPQVR----- 589
QY 601 AKAYGEVDEEAATLNDGEGTQAESAGANGDS-----SALTTPRATAGEPNF- 653
DB 601 AKAYGEVDEEAATLNDGEGTQAESAGANGDS-----SALTTPRATAGEPNF- 653
QY 590 -----IDNPVGGFSFALPAGWESDAHFHDYGSALLS-----KTTGDDPPFP 630
DB 590 -----IDNPVGGFSFALPAGWESDAHFHDYGSALLS-----KTTGDDPPFP 630
QY 654 -----MDLKEAAKLETGQDQASLAHFPADGNTFNLTLQGVKRFPGFD 697
DB 654 -----MDLKEAAKLETGQDQASLAHFPADGNTFNLTLQGVKRFPGFD 697
QY 631 GQPPVANDRIYVGRDQKLYASAEATDSKAA-----RLSGDMKEF--YM 675
DB 631 GQPPVANDRIYVGRDQKLYASAEATDSKAA-----RLSGDMKEF--YM 675
QY 698 NMEGDAATACASLDDQOROWITLHMAKLSAAMAKQAQVYLAHLHVARREHPTYEDI 757
DB 698 NMEGDAATACASLDDQOROWITLHMAKLSAAMAKQAQVYLAHLHVARREHPTYEDI 757
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DB 676 PYGTRINQETVLD-----ANGVSSGASYEVKFSDDSPKNGQIMWGVIGSPA 724
QY 758 LVANPSARDQILIPYAEYQORSEKVLTEYN-----KALEPVNP-EKPPPAKITDP 809
DB 725 ANAPDAGPPQWRPVVW-----LGTANNVDVKAAKALAESIRPLVAPPPA-----P 770
QY 810 PPPQEGGLIPGLMPPSDGSGVTGCGMPAAMVPPTSRGGGLPA 856
DB 771 APAPAEPA-----PAPAPAGEVAP-----TPTTPORTLPA 802

RESULT 10
US-10-084-843-351
; Sequence 351, Application US/10084843
; Patent No. 6962710
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skelky, Yasir A.W.
; Dillon, Devin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSER: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 351:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 351:
US-10-084-843-351

Query Match      53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHVVDIGTSPTEWQAABAVQPARDSVDDIRVARYIEODMAVDSAGKITRYI 60
DB 1 MGHNNHHVVDIGTSPTEWQAABAVQPARDSVDDIRVARYIEODMAVDSAGKITRYI 60
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QY 61 KLEVSFKRPAOPRCGSKPSPGSPETGAGTVAATTPASSPVTLAETGSTALLYPLFNMG 120
Db 61 KLEVSFKRPAOPRCGSKPSPGSPETGAGTVAATTPASSPVTLAETGSTALLYPLFNMG 119
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QY 481 RFOANANKOKOELDEISTNIRQAGVOYSRADEBEOQALSSQMGTFV--PTTAAASPPSTAAA 540
Db 481 RFOANANKOKOELDEISTNIRQAGVOYSRADEBEOQALSSQMGTFV--PTTAAASPPSTAAA 537
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Db 541 ANEVEAPADPPTVPTPCETLTAQNAQAQOLVLSADNMRREYLAAGAKERQRLATSLRNA 589
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QY 601 AKAYGEVDEEAATLNDDEGTQAESAGAVGDS-----SABLTDTPRVAATAGEPNF- 653
Db 601 AKAYGEVDEEAATLNDDEGTQAESAGAVGDS-----SABLTDTPRVAATAGEPNF- 630
QY 654 -----MDLKAARKLETGDOGASLAHFAQGMNTFNLTLOQDVYKFRFGFD 697
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QY 698 NMEGDATACBASLDQQRWITLHMAKLSAAMAKOAYVAQLHVMAREHPYEDIVGLER 757
Db 698 NMEGDATACBASLDQQRWITLHMAKLSAAMAKOAYVAQLHVMAREHPYEDIVGLER 724
QY 758 LYAENPSARDOILPVYAEOQRSEKVLTEYNN-----KALEPVNP-PKPPAIKIDP 809
Db 758 LYAENPSARDOILPVYAEOQRSEKVLTEYNN-----KALEPVNP-PKPPAIKIDP 770
QY 810 PPPPOEGGLPGFLMPPSDSGVTPTGMPAPVMPPTGSPGGLPA 856
Db 810 PPPPOEGGLPGFLMPPSDSGVTPTGMPAPVMPPTGSPGGLPA 802
QY 771 APAPABEA-----PAPAPAGEVAP-----TPTPTPQRTLPA 802

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RESULT 11
US-09-056-556-184
; Sequence 184, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESS: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA

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; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-Apr-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: MAKI, David U.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 184:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 460 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-09-056-556-184

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Query Match 46.8%; Score 2375; DB 2; Length 460;

Best Local Similarity 100.0%; Pred. No. 4, 4e-164; Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 525 TOSQTVTDQOEILNRANVEAPADPPTVPTPCETLTAQNAQAQOLVLSADNMRREYLA 584
Db 2 TOSQTVTDQOEILNRANVEAPADPPTVPTPCETLTAQNAQAQOLVLSADNMRREYLA 61
QY 585 AGAKERQRLATSLRNAKAYGEVDEEAATLNDDEGTQAESAGAVGDSABLTDTPR 644
Db 62 AGAKERQRLATSLRNAKAYGEVDEEAATLNDDEGTQAESAGAVGDSABLTDTPR 121
QY 645 VATAGEPNFMDLKEAARKLETGDOGASLAHFAQGMNTFNLTLOQDVYKFRFGFDWEGDAA 704
Db 122 VATAGEPNFMDLKEAARKLETGDOGASLAHFAQGMNTFNLTLOQDVYKFRFGFDWEGDAA 181
QY 705 TACEASLDQQRWITLHMAKLSAAMAKOAYVAQLHVMAREHPYEDIVGLERLYAENPS 764
Db 182 TACEASLDQQRWITLHMAKLSAAMAKOAYVAQLHVMAREHPYEDIVGLERLYAENPS 241
QY 765 ARDOILPVYAEOQRSEKVLTEYNNKALBPVNPCKPPAIKIDPPPPPOEGGLIPGFLM 824
Db 242 ARDOILPVYAEOQRSEKVLTEYNNKALBPVNPCKPPAIKIDPPPPPOEGGLIPGFLM 301
QY 825 PPSPDSGVTPTGMPAPVMPPTGSPGGLPADTAAQLTSAGREAAALSGDVAVKAAASLG 884
Db 302 PPSPDSGVTPTGMPAPVMPPTGSPGGLPADTAAQLTSAGREAAALSGDVAVKAAASLG 361
QY 885 GGGGGGVPSAPLGSALIGASVVRPAGAGDLAGCGRAGGGAALGGGGMGMPMAHAHQG 944
Db 362 GGGGGGVPSAPLGSALIGASVVRPAGAGDLAGCGRAGGGAALGGGGMGMPMAHAHQG 421
QY 945 GGAASKSGQOEDEALYTEDRAWTEAVIGNRRRDSKSK 983
Db 422 GGAASKSGQOEDEALYTEDRAWTEAVIGNRRRDSKSK 460

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RESULT 12
US-09-072-596-179
; Sequence 179, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedwick, Thomas S.

```

APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 179:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-596-179

Query Match 46.8%; Score 2375; DB 2; Length 460;
Best Local Similarity 100.0%; Pred. No. 4.4e-164;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSGTVVDDOELINRANEVEAPADPTVPITPCBLTAAXNAAOQLVLSADNMRXYLA 584
DB 2 TOSGTVVDDOELINRANEVEAPADPTVPITPCBLTAAXNAAOQLVLSADNMRXYLA 61
QY 585 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVOAESAGAVGDSSELTDTPR 644
DB 62 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVOAESAGAVGDSSELTDTPR 121
QY 645 VATAGEBNFMDLKEARKLETGDOGASLAHFPADGNTFNLTLLQGDVXKFRFGFDNMBGDA 704
DB 122 VATAGEBNFMDLKEARKLETGDOGASLAHFPADGNTFNLTLLQGDVXKFRFGFDNMBGDA 181
QY 705 TACEASLDDOOROWILHNAKISAAAKAOQYVAQLHWARRHEPTYEDIVGLERLYAENPS 764
DB 182 TACEASLDDOOROWILHNAKISAAAKAOQYVAQLHWARRHEPTYEDIVGLERLYAENPS 241
QY 765 ARDQILVYAEYOORSEKVLTEYNNAKALEPVNPKPPPAIKIDPPPPPOEGILPGLFM 824
DB 242 ARDQILVYAEYOORSEKVLTEYNNAKALEPVNPKPPPAIKIDPPPPPOEGILPGLFM 301
QY 825 PPSDGSVTPGTGMPAPMVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAASLG 884
DB 302 PPSDGSVTPGTGMPAPMVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAASLG 361
QY 885 GGGGGGVPAPVLSAIGAGSVRPAAGADLAGCGGAGGAGALGGGGMGMPMAAGGQ 944
DB 362 GGGGGGVPAPVLSAIGAGSVRPAAGADLAGCGGAGGAGALGGGGMGMPMAAGGQ 421
QY 945 GGAASKGSOODEALYTEDRAWTEAVIGNRRRODSKSK 983
DB 422 GGAASKGSOODEALYTEDRAWTEAVIGNRRRODSKSK 460

RESULT 13
US-09-072-967-184
Sequence 184, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedwick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 184:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-967-184

Query Match 46.8%; Score 2375; DB 2; Length 460;
Best Local Similarity 100.0%; Pred. No. 4.4e-164;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSGTVVDDOELINRANEVEAPADPTVPITPCBLTAAXNAAOQLVLSADNMRXYLA 584
DB 2 TOSGTVVDDOELINRANEVEAPADPTVPITPCBLTAAXNAAOQLVLSADNMRXYLA 61
QY 585 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVOAESAGAVGDSSELTDTPR 644
DB 62 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVOAESAGAVGDSSELTDTPR 121
QY 645 VATAGEBNFMDLKEARKLETGDOGASLAHFPADGNTFNLTLLQGDVXKFRFGFDNMBGDA 704
DB 122 VATAGEBNFMDLKEARKLETGDOGASLAHFPADGNTFNLTLLQGDVXKFRFGFDNMBGDA 181
QY 705 TACEASLDDOOROWILHNAKISAAAKAOQYVAQLHWARRHEPTYEDIVGLERLYAENPS 764
DB 182 TACEASLDDOOROWILHNAKISAAAKAOQYVAQLHWARRHEPTYEDIVGLERLYAENPS 241
QY 765 ARDQILVYAEYOORSEKVLTEYNNAKALEPVNPKPPPAIKIDPPPPPOEGILPGLFM 824
DB 242 ARDQILVYAEYOORSEKVLTEYNNAKALEPVNPKPPPAIKIDPPPPPOEGILPGLFM 301
QY 825 PPSDGSVTPGTGMPAPMVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAASLG 884

Db 302 PPSDGSVTTGTGTPALPMVPTTSSPGGGLPADTAOLTSAGREAAALSGDVAVKASLIG 361

Qy 885 GGGGGVPSAPLGSALGASVVRPAGADIALGQGRAGGAGALGGGGMGMPGAHQG 944

Db 362 GGGGGVPSAPLGSALGASVVRPAGADIALGQGRAGGAGALGGGGMGMPGAHQG 421

Qy 945 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRQDSKSK 983

Db 422 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRQDSKSK 460

RESULT 14

US-10-193-002-179

Sequence 179, Application US/10193002

Patent No. 6949246

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.

Dillon, Davin C.

Campo-Neto, Antonio

Houghton, Raymond

Vedrick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193.002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31.392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 179:

SEQUENCE CHARACTERISTICS:

LENGTH: 460 amino acids

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 179:

US-10-193-002-179

Query Match 46.8%; Score 2375; DB 2; Length 460;

Best Local Similarity 100.0%; Pred. No. 4.4e-164;

Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 525 TOSGTAVDDEITLNRANVEAPADPTDPTVITPCSLTAKNAAQOLVLSADMMREYLA 584

Db 2 TOSGTAVDDEITLNRANVEAPADPTDPTVITPCSLTAKNAAQOLVLSADMMREYLA 61

Qy 585 AGAKERQRLATSLRNAKAYGEVDEERATLNDNDEGTVOAESAGAVGDSSELTDTPR 644

Db 62 AGAKERQRLATSLRNAKAYGEVDEERATLNDNDEGTVOAESAGAVGDSSELTDTPR 121

Qy 645 VATAEENFMDLKEAARKLETGOGASIAHFDGNTFNLTLOGDVRFPGFDNMEGDAA 704

Db 122 VATAEENFMDLKEAARKLETGOGASIAHFDGNTFNLTLOGDVRFPGFDNMEGDAA 181

Qy 705 TACEASIDQOROWILHMAKLSAAMAKOAYVAQLHWARRRHPTYEDI VGLERLYAENPS 764

Db 182 TACEASIDQOROWILHMAKLSAAMAKOAYVAQLHWARRRHPTYEDI VGLERLYAENPS 241

Qy 765 ARDQILFVAEYQORSEKULTYNNKALFEPVNPKEPPALKIDPPPEQGLIPETIM 824

Db 242 ARDQILFVAEYQORSEKULTYNNKALFEPVNPKEPPALKIDPPPEQGLIPETIM 301

Qy 825 PPSDGSVTTGTGTPALPMVPTTSSPGGGLPADTAOLTSAGREAAALSGDVAVKASLIG 884

Db 302 PPSDGSVTTGTGTPALPMVPTTSSPGGGLPADTAOLTSAGREAAALSGDVAVKASLIG 361

Qy 885 GGGGGVPSAPLGSALGASVVRPAGADIALGQGRAGGAGALGGGGMGMPGAHQG 944

Db 362 GGGGGVPSAPLGSALGASVVRPAGADIALGQGRAGGAGALGGGGMGMPGAHQG 421

Qy 945 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRQDSKSK 983

Db 422 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRQDSKSK 460

RESULT 15

US-10-084-843-184

Sequence 184, Application US/10084843

Patent No. 6962710

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.

Dillon, Davin C.

Campo-Neto, Antonio

Houghton, Raymond

Vedrick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/084.843

FILING DATE: 25-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.967

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31.392

REFERENCE/DOCKET NUMBER: 210121.411C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 184:

SEQUENCE CHARACTERISTICS:

LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 184:
US-10-084-843-184

Query Match 46.8%; Score 2375; DB 2; Length 460;
Best Local Similarity 100.0%; Pred. No. 4.4e-164;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	525	TOSQTVVDDQOEILNRANEVEAPWADPPTDVPTPCELTAKNAQAQOLVLSADNREYLA	584
DB	2	TOSQTVVDDQOEILNRANEVEAPWADPPTDVPTPCELTAKNAQAQOLVLSADNREYLA	61
QY	585	AGAKERQRLATSLRNAKAYGEVDEEAATLNDDEGTVOAESAGAVGDSSELTDTPR	644
DB	62	AGAKERQRLATSLRNAKAYGEVDEEAATLNDDEGTVOAESAGAVGDSSELTDTPR	121
QY	645	VATAGEPNFMDLKEAAKLETGDOGASLAHPADGWNTPNLTLOGDVKRFPGFDNWECDAA	704
DB	122	VATAGEPNFMDLKEAAKLETGDOGASLAHPADGWNTPNLTLOGDVKRFPGFDNWECDAA	181
QY	705	TACEASLDDQOROWTLHMAKLSAAMAKOAYVAQLHWARRRHPTVEDIVGLERYAENPS	764
DB	182	TACEASLDDQOROWTLHMAKLSAAMAKOAYVAQLHWARRRHPTVEDIVGLERYAENPS	241
QY	765	ARDQILPVVAEYOQRSEKVLTEYNNKAALBEFVNPPKPPPAIKIDPPPOEGILPGFLM	824
DB	242	ARDQILPVVAEYOQRSEKVLTEYNNKAALBEFVNPPKPPPAIKIDPPPOEGILPGFLM	301
QY	825	PPSDGSGVTPTGTMPAAPMVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAAASLG	884
DB	302	PPSDGSGVTPTGTMPAAPMVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAAASLG	361
QY	885	GGGGGGVPSPALGSAIGAESVPRPAGADTAGCGRAGGGAALGGGGMGMGMGAHOGQ	944
DB	362	GGGGGGVPSPALGSAIGAESVPRPAGADTAGCGRAGGGAALGGGGMGMGMGAHOGQ	421
QY	945	GGAKSQSGQOEDEALYTEDRAWTEAVIGNRRRODSKESK	983
DB	422	GGAKSQSGQOEDEALYTEDRAWTEAVIGNRRRODSKESK	460

Search completed: February 3, 2006, 17:02:28
Job time : 74.3819 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 227.768 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672a-54

Perfect score: 5072
Sequence: 1 MGHHHHHVYIDITGTSPTSM.....RAWTEAVIGNRRQDSKSK 983

Scoring table: BLOSUM62
Gapop 10.0 , Gapect 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA_Main:*

- 1: /cgn2_6/prodata/1/pubppa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/prodata/1/pubppa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/prodata/1/pubppa/US09_PUBCOMB.pep:*
- 4: /cgn2_6/prodata/1/pubppa/US10A_PUBCOMB.pep:*
- 5: /cgn2_6/prodata/1/pubppa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/prodata/1/pubppa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2700	53.2	802	3 US-09-287-849-10	Sequence 10, App1
2	2700	53.2	802	4 US-10-193-002-209	Sequence 209, App
3	2700	53.2	802	4 US-10-193-002-346	Sequence 346, App
4	2700	53.2	802	4 US-10-084-843-214	Sequence 214, App
5	2700	53.2	802	4 US-10-084-843-351	Sequence 351, App
6	2700	53.2	802	4 US-10-359-460-10	Sequence 10, App1
7	2700	53.2	802	6 US-11-028-898-214	Sequence 214, App
8	2700	53.2	802	6 US-11-028-898-351	Sequence 351, App
9	2700	53.2	802	6 US-11-082-005-209	Sequence 209, App
10	2700	53.2	802	6 US-11-082-005-346	Sequence 346, App
11	2375	46.8	460	4 US-10-193-002-179	Sequence 179, App
12	2375	46.8	460	4 US-10-084-843-184	Sequence 184, App
13	2375	46.8	460	5 US-10-510-021-71	Sequence 71, App1
14	2375	46.8	460	6 US-11-028-898-184	Sequence 184, App
15	2375	46.8	460	6 US-11-028-898-150	Sequence 150, App
16	1839	36.3	652	4 US-10-193-002-350	Sequence 350, App
17	1839	36.3	652	4 US-10-084-843-355	Sequence 355, App
18	1839	36.3	652	6 US-11-028-898-355	Sequence 355, App
19	1839	36.3	652	6 US-11-082-005-350	Sequence 350, App
20	1831	36.1	374	3 US-09-287-849-6	Sequence 6, App1
21	1831	36.1	374	3 US-09-287-849-40	Sequence 40, App1
22	1831	36.1	374	4 US-09-886-349A-39	Sequence 39, App1
23	1831	36.1	374	4 US-10-193-002-148	Sequence 148, App
24	1831	36.1	374	4 US-10-193-002-150	Sequence 150, App
25	1831	36.1	374	4 US-10-084-843-153	Sequence 153, App
26	1831	36.1	374	4 US-10-084-843-155	Sequence 155, App
27	1831	36.1	374	4 US-10-359-460-6	Sequence 6, App1

28	1831	36.1	374	4 US-10-359-460-40	Sequence 40, App1
29	1831	36.1	374	4 US-10-098-732A-39	Sequence 39, App1
30	1831	36.1	374	4 US-10-332-512A-5	Sequence 5, App1
31	1831	36.1	374	6 US-11-028-898-153	Sequence 153, App
32	1831	36.1	374	6 US-11-028-898-155	Sequence 155, App
33	1831	36.1	374	6 US-11-082-005-148	Sequence 148, App
34	1831	36.1	374	6 US-11-082-005-150	Sequence 150, App
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36	791	15.6	166	4 US-10-084-843-89	Sequence 89, App1
37	791	15.6	166	6 US-11-028-898-89	Sequence 89, App1
38	791	15.6	166	6 US-11-082-005-90	Sequence 90, App1
39	485	9.6	100	4 US-10-080-170-639	Sequence 639, App
40	485	9.6	100	4 US-10-193-002-110	Sequence 110, App
41	485	9.6	100	4 US-10-084-843-115	Sequence 115, App
42	485	9.6	100	4 US-10-080-170-639	Sequence 639, App
43	485	9.6	100	4 US-10-468-356-639	Sequence 639, App
44	485	9.6	100	5 US-10-520-084-37	Sequence 37, App1
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ALIGNMENTS

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RESULT 1
US-09-287-849-10
; Sequence 10, Application US/09287849
; Patent No. US20020009459A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287,849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:tetra-fusion
US-09-287-849-10

Query Match 53.2%; Score 2700; DB 3; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHHHHHVYIDITGTSPTSMWQAAAVORARDSDVDIRVAVIEDMAVDSAGKITRYI 60
Db 1 MGHHHHHVYIDITGTSPTSMWQAAAVORARDSDVDIRVAVIEDMAVDSAGKITRYI 60
QY 61 KLEVSFKMPAPRCGSKPSPGSPETGAGAGVATTPASSPTLATGSLTYPLFNWG 120
Db 61 KLEVSFKMPAPRCGSKPSPGSPETGAGAGVATTPASSPTLATGSLTYPLFNWG 119
QY 121 PAFHERYPTVTTTAQGTSGAGIAQAAAGTVNIGASDAVLSQDMAHAGLMTALAIISA 180
Db 121 PAFHERYPTVTTTAQGTSGAGIAQAAAGTVNIGASDAVLSQDMAHAGLMTALAIISA 180
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Db 120 PAHERYVNTTITTAOCTGSGAGIAQAAGTAVNIGASDAVLSBGDMAHKGMMIALAISA 179
Qy 181 QOVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 240
Db 180 QOVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 239
Qy 241 GDTFLFTQYLSKDPBPGWKS PFGTITVDPPAVPAGALGNGNGMTGCAETPGCAVYIG 300
Db 240 GDTFLFTQYLSKDPBPGWKS PFGTITVDPPAVPAGALGNGNGMTGCAETPGCAVYIG 299
Qy 301 ISFLDASQRLGAEALGNSNGFLPDAOSIQAAAAGFASKTPANQAISMDGPADGX 360
Db 300 ISFLDASQRLGAEALGNSNGFLPDAOSIQAAAAGFASKTPANQAISMDGPADGX 359
Qy 361 PIINYEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 420
Db 360 PIINYEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 419
Qy 421 ATISSAEMTKDATTAAQEAENFERISGDLKTQIDQVESTAGSLQGWGAAAGTAAQAAVY 480
Db 420 ATISSAEMTKDATTAAQEAENFERISGDLKTQIDQVESTAGSLQGWGAAAGTAAQAAVY 479
Qy 481 RFOEANKOKOELDEISTINRQAGVYSRADDEQQAALSSQMGFV--PTTAAAPSTAAA 540
Db 480 RFOEANKOKOELDEISTINRQAGVYSRADDEQQAALSSQMGFV--PTTAAAPSTAAA 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOVLASDNMREYLAAGAKERORLATSLRNA 600
Db 538 PPAAPATVAPPPAAANTPNAQCPDPNAAPPPAPPAAPPPVIAFPNAPQFVR----- 589
Qy 601 AARAYGEVDEBAALALNDGEGTQASAGAVGDS-----SALDTPRVAIARGENF- 653
Db 590 -----IDNPVGGFSEFALPAGVNESDAHFVDSALIS-----KTTGDPFPF 630
Qy 654 -----MDLKEARKLETGPOGASLAHFADGMMTFFNLTLQGVKFRFGFD 697
Db 631 GQPPPAANDTRIVLGRDQKLYASAEKTDKAAA-----RLSDNGEF--YM 675
Qy 698 NMEGDAATACASLDQOROWILMAKLSAAMAKAOYVAQIHWARRHPHYEDIAGLER 757
Db 676 PYGTRINQETVSLD-----ANGVSGSASYEVKFPSPKXNGQIMWGIVGSPA 724
Qy 758 LVAENASARDQILPYVAEYQORSEKULTEYN-----KAALFPVNP-PKPPPAIKIDP 809
Db 725 ANAPDAGPPORPWVW-----LGTANNPVDKGAALAESIRPLVAPPPA-----P 770
Qy 810 PPPPOGGLIRGFLMPDSDGVTPTGMPDAPMVPPTGSPGGGLPA 856
Db 771 APAPAPPA-----PAPAPAGEVAP-----TPPTTPPQRTLPA 802

RESULT 2

US-10-193-002-209
Sequence 209, Application US/10193002
Publication No. US20030135026A1
GENERAL INFORMATION:
APPLICANT: Skeiky, Yasir A.W.
Dillon, Davin C.
Campes-Neto, Antonia
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESS: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington

COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193, 002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 209:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 209:
US-10-193-002-209

Query Match 53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

Qy 1 MGHNNHHNYIDIIIGTSPTEMEQAAAEAVORARDVDDIRVARYIEDDMAVDSAGKITRYI 60
Db 1 MGHNNHHNYIDIIIGTSPTEMEQAAAEAVORARDVDDIRVARYIEDDMAVDSAGKITRYI 60
Qy 61 KLEVSFKMRPAORCGSKPPSGSPETGAGATVATTASSPVTLTAETGTLVPLNLWG 120
Db 61 KLEVSFKMRPAORCGSKPPSGSPETGAGATVATTASSPVTLTAETGTLVPLNLWG 119
Qy 121 PAHERYVNTTITTAOCTGSGAGIAQAAGTAVNIGASDAVLSBGDMAHKGMMIALAISA 180
Db 120 PAHERYVNTTITTAOCTGSGAGIAQAAGTAVNIGASDAVLSBGDMAHKGMMIALAISA 179
Qy 181 QOVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 240
Db 180 QOVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 239
Qy 241 GDTFLFTQYLSKDPBPGWKS PFGTITVDPPAVPAGALGNGNGMTGCAETPGCAVYIG 300
Db 240 GDTFLFTQYLSKDPBPGWKS PFGTITVDPPAVPAGALGNGNGMTGCAETPGCAVYIG 299
Qy 301 ISFLDASQRLGAEALGNSNGFLPDAOSIQAAAAGFASKTPANQAISMDGPADGX 360
Db 300 ISFLDASQRLGAEALGNSNGFLPDAOSIQAAAAGFASKTPANQAISMDGPADGX 359
Qy 361 PIINYEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 420
Db 360 PIINYEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 419
Qy 421 ATISSAEMTKDATTAAQEAENFERISGDLKTQIDQVESTAGSLQGWGAAAGTAAQAAVY 480
Db 420 ATISSAEMTKDATTAAQEAENFERISGDLKTQIDQVESTAGSLQGWGAAAGTAAQAAVY 479
Qy 481 RFOEANKOKOELDEISTINRQAGVYSRADDEQQAALSSQMGFV--PTTAAAPSTAAA 540
Db 480 RFOEANKOKOELDEISTINRQAGVYSRADDEQQAALSSQMGFV--PTTAAAPSTAAA 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOVLASDNMREYLAAGAKERORLATSLRNA 600
Db 538 PPAAPATVAPPPAAANTPNAQCPDPNAAPPPAPPAAPPPVIAFPNAPQFVR----- 589

QY 601 AKAYGEVDEBAATLNDGEGTVQAESAGAVGDS-----SAELTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGFSFALPAGWESDAHFVGSALIS-----KTGGDPPFP 630
 QY 654 -----MDLKEARKLETGQOASLAHFPADGWTFTNLTOGDVYKFRFGFD 697
 Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAA-----RLGSDMGEEF--YM 675
 QY 698 NWGDATAACEASLDQOQWILHMAKLSAMAKOQVLAOLHWAREHPTVEDIVGLER 757
 Db 676 PYPGTRINQETVSLD-----ANGVSGSASYEVKFSDBSKNGQIWTGVISPA 724
 QY 758 LVNENPSARDQILPVYAEYQORSEKVLTEYNN-----KAALBPVNP-EKPPAIKIDP 809
 Db 725 ANAPDAGPPQRMFVW-----LGTANNPVDKGAALAESIRPLVAPPPA-----P 770
 QY 810 PPPPOGGLIPGLMPPSDSGVTPTGMPAAMPVPTGSPGGGLPA 856
 Db 771 APAPAEPA-----PAPAPAGEVAP-----TPTTPTPQRTLPA 802

RESULT 3

US-10-193-002-346
 ; Sequence 346, Application US/10193002
 ; Publication No. US20030135026A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yahir A.W.

Dillon, Davin C.

Campes-Neto, Antonia

Houghton, Raymond

Vedrick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193.002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 346:

LENGTH: 802 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 346:

US-10-193-002-346

Query Match 53.2%; Score 2700; DB 4; Length 802;

Best Local Similarity 66.6%; Pred. No. 2,6e-147;

Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHHHHHVIDIIGTSPSTWEOAAAEAVQARSDVDDIRVAVIEQDMAVDSACKITRYI 60
 Db 1 MGHHHHHVIDIIGTSPSTWEOAAAEAVQARSDVDDIRVAVIEQDMAVDSACKITRYI 60
 QY 61 KLEVSFMRPAQRCRCSKPPSGSPETGAGTVAATPASSPVTLAETGTLPLPLFWLWG 120
 Db 61 KLEVSFMRPAQRCRCSKPPSGSPETGAGTVAATPASSPVTLAETGTLPLPLFWLWG 119
 QY 121 PAFHERYVNTITTAQGGSGAGIAQAAAGTVNIGASDAVISEGDMAHKLMIALAISA 180
 Db 120 PAFHERYVNTITTAQGGSGAGIAQAAAGTVNIGASDAVISEGDMAHKLMIALAISA 179
 QY 181 QQVNVNLPVSEHLKNGKVLAAVYQGTIKTMDPQIAALNPGVNLPGTAVVPLHRS DGS 240
 Db 180 QQVNVNLPVSEHLKNGKVLAAVYQGTIKTMDPQIAALNPGVNLPGTAVVPLHRS DGS 239
 QY 241 GDTFPLFYQYLSKQDPBGMGKSPPGRTTVDPPAVPAGALGNGNGMTGCAETGCVAYIG 300
 Db 240 GDTFPLFYQYLSKQDPBGMGKSPPGRTTVDPPAVPAGALGNGNGMTGCAETGCVAYIG 299
 QY 301 ISFLDQASQKGLGBAQLGNSSGNFLPDAQSIQAAAAAFASKTPANQAI SMIDGPADGY 360
 Db 300 ISFLDQASQKGLGBAQLGNSSGNFLPDAQSIQAAAAAFASKTPANQAI SMIDGPADGY 359
 QY 361 PIINYEYAI VNNRQKAAQTQTLQAFILHMAITDGNKASFIDQVHFQPLPVA VVKLSDALI 420
 Db 360 PIINYEYAI VNNRQKAAQTQTLQAFILHMAITDGNKASFIDQVHFQPLPVA VVKLSDALI 419
 QY 421 ATISSAEMKTDAAITLQEGNPFERISGDLKTIQIDQVSTYIGSIQCGMGAAGTAQAAYV 480
 Db 420 ATISSAEMKTDAAITLQEGNPFERISGDLKTIQIDQVSTYIGSIQCGMGAAGTAQAAYV 479
 QY 481 RFOEANKKQKQELDEISTNIRQAGVOYSPRADEEQOALSOMGPTQSYTVNQOELINR 540
 Db 480 RFOEANKKQKQELDEISTNIRQAGVOYSPRADEEQOALSOMGPTQSYTVNQOELINR 537
 QY 541 ANEVEAPMADPTDVPTTPELTAAKVAAQOLVLSADNMBEYLAAGKERQRLATSIRNA 600
 Db 538 PPAAPATPVAPPRAANTPNAQCPDRPAAPPPADPNAAPPVLAAPNAQPVR----- 589
 QY 601 AKAYGEVDEBAATLNDGEGTVQAESAGAVGDS-----SAELTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGFSFALPAGWESDAHFVGSALIS-----KTGGDPPFP 630
 QY 654 -----MDLKEARKLETGQOASLAHFPADGWTFTNLTOGDVYKFRFGFD 697
 Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAA-----RLGSDMGEEF--YM 675
 QY 698 NWGDATAACEASLDQOQWILHMAKLSAMAKOQVLAOLHWAREHPTVEDIVGLER 757
 Db 676 PYPGTRINQETVSLD-----ANGVSGSASYEVKFSDBSKNGQIWTGVISPA 724
 QY 758 LVNENPSARDQILPVYAEYQORSEKVLTEYNN-----KAALBPVNP-EKPPAIKIDP 809
 Db 725 ANAPDAGPPQRMFVW-----LGTANNPVDKGAALAESIRPLVAPPPA-----P 770
 QY 810 PPPPOGGLIPGLMPPSDSGVTPTGMPAAMPVPTGSPGGGLPA 856
 Db 771 APAPAEPA-----PAPAPAGEVAP-----TPTTPTPQRTLPA 802

RESULT 4

US-10-084-843-214
 ; Sequence 214, Application US/10084843
 ; Publication No. US20030143243A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4800
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 214:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-10-084-843-214
SEQUENCE DESCRIPTION: SEQ ID NO: 214:
Query Match 53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;
QY 1 MGHHHHHVVDIIGTSTPTSEWQAAEAHVQARSDVDDIRVAVIEQDMAVDSAGKITRYRI 60
DB 1 MGHHHHHVVDIIGTSTPTSEWQAAEAHVQARSDVDDIRVAVIEQDMAVDSAGKITRYRI 60
QY 61 KLEVSFMRPAQRCCKSPGSGSPETGAGCTVATTTPASSPVTLAETGSLTILPLFWLWG 120
DB 61 KLEVSFMRPAQRCCKSPGSGSPETGAGCTVATTTPASSPVTLAETGSLTILPLFWLWG 120
QY 121 PAHERERPANTITTAQGGSGAGTAAAGATVNI GASAVYLSBGDMAAHKGLMNTALISA 180
DB 121 PAHERERPANTITTAQGGSGAGTAAAGATVNI GASAVYLSBGDMAAHKGLMNTALISA 180
QY 181 QQVNVNLPVSEHLKLTNGKYLAAVQGTIKTWDDPQIAALNPGVNLPGTAVVPLHRS DGS 240
DB 181 QQVNVNLPVSEHLKLTNGKYLAAVQGTIKTWDDPQIAALNPGVNLPGTAVVPLHRS DGS 240
QY 241 GDTFLFTQVYLSKODPBGWGSXPGFGTTVDTPPAVPGALGNGNGMTGCAETPGCVAYIG 300
DB 241 GDTFLFTQVYLSKODPBGWGSXPGFGTTVDTPPAVPGALGNGNGMTGCAETPGCVAYIG 300
QY 301 ISFLDQASQGLGAEAOIGNSSGNFLLPDAOSIQAAAGAFASKTPANQAI SMITDGPADGY 360
DB 301 ISFLDQASQGLGAEAOIGNSSGNFLLPDAOSIQAAAGAFASKTPANQAI SMITDGPADGY 360

QY 361 PIINVEYATVNNRQKDAATQTLQAFILHWAITDGNKASFLDQVHPQPLPPAVYKLSDALI 420
DB 360 PIINVEYATVNNRQKDAATQTLQAFILHWAITDGNKASFLDQVHPQPLPPAVYKLSDALI 419
QY 421 ATISSAEMKTDAATLQAEAGNFERISGDLKTOIDQVESTAGSIQGWGAGTAAQAAVY 480
DB 420 ATISSAEMKTDAATLQAEAGNFERISGDLKTOIDQVESTAGSIQGWGAGTAAQAAVY 479
QY 481 RFOEANKKQKQELDEISTNIRQAGVOYSPADEBQOQALSSQMGFTQSQTIVYDQETLNR 540
DB 480 RFOEANKKQKQELDEISTNIRQAGVOYSPADEBQOQALSSQMGFTV--PTTAA SPSTAA 537
QY 541 ANVEEAPMDPDPDVITPCCELTAANKNAQQLVLSMNNREYLAAGAKERQRLATSLRNA 600
DB 538 PPAPATPVAPPPPAANTPNAAQPGDBNAA PPAADPNAPPPPIVAPVAPQVR----- 589
QY 601 AKAYGEVDEEATATLNDGEGTVQAESAGAVGDS-----SAELTDTPRVATAGBNF- 653
DB 590 -----INPVGGSFALPAGWVESDAHFPGSALLS-----KTGDPPEF 630
QY 654 -----MDIKEARKLETGDDQASLAHFPADGNTNLTLOGDYKRRFGPD 697
DB 631 GQPPVANDTRIVLGRLDQKLYASAETDSKAA-----RLGSDWGEF--YM 675
QY 698 NMEGDAATCEASLDOQRQWILHMAKLSAAMKQAOYVAQILHVARREHPYEDVGLER 757
DB 676 PYPGTRINQETVSLD-----ANGVSGSASTYEVKFPDPSKPNQOIMGVIGSRA 724
QY 758 LVYENPSARDQILPYVAYEQSEKVLTEYNN-----KAALPEVNP-PKPPPAIKIDP 809
DB 725 ANAPDAGPPQRMWVW-----LGTANNVVDGAAKALAESIRPLVAPPPA-----P 770
QY 810 PPPQOGLIPGFLMPPSDGSGVTPTGMPAPAMPVPTGSPGGGLPA 856
DB 771 APAPABPA-----PAPAPAGEVAP-----TPTPTPORTLPA 802
RESULT 5
US-10-084-843-351
; Sequence 351, Application US/10084843
; Publication No. US20030143243A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION NUMBER: US/09/072,967

```

;
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 351:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 351:
US-10-084-643-351

Query Match      53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHNVIDIIGTSTPTSWEQAAAEAVQPARDSVDDIRVARYIEQMAVDSAGKITYRI 60
DB 1 MGHNNHHNVIDIIGTSTPTSWEQAAAEAVQPARDSVDDIRVARYIEQMAVDSAGKITYRI 60
QY 61 KLEVSFPMRAOPRCGSPGSGSPETGAGATVATTASSPVTLAETGSLTLPLFNLWG 120
DB 61 KLEVSFPMRAOPRCGSPGSGSPETGAGATVATTASSPVTLAETGSLTLPLFNLWG 119
QY 121 PAFHERYPNTVTTAOGTSGAGIAQAAAAGTVNIGASDAYLSEGDMAAHKGLMNTALISA 180
DB 120 PAFHERYPNTVTTAOGTSGAGIAQAAAAGTVNIGASDAYLSEGDMAAHKGLMNTALISA 179
QY 181 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKTWDDPQIAALNPGVNLPGTAVVPLHSDGS 240
DB 180 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKTWDDPQIAALNPGVNLPGTAVVPLHSDGS 239
QY 241 GDFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 300
DB 240 GDFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 299
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DB 300 ISFLDQASQGLGEAQLGNSSGNFLPDAQSIQAAAAAFASKTPANQALSMIDGPADGY 359
QY 361 PIINVEYAIYNNRQKDAATQTLQAFLLHMAITDGNKASFLDQVHFQPLPRAVVLSDALI 420
DB 360 PIINVEYAIYNNRQKDAATQTLQAFLLHMAITDGNKASFLDQVHFQPLPRAVVLSDALI 419
QY 421 ATISSAEMKTDATLQEAENFERISGDLKTQIDQVSTSGSLQOGMRGAAGTAQAAYV 480
DB 420 ATISSAEMKTDATLQEAENFERISGDLKTQIDQVSTSGSLQOGMRGAAGTAQAAYV 479
QY 481 RFOEAAKQKQELDEISTNIRQAGVQSRADDEQQAALSSQMGFTQSQGTTLVQOEILNR 540
DB 480 RFOEAAKQKQELDEISTNIRQAGVQSRADDEQQAALSSQMGV--PTTAAESPSTRAA 537
QY 541 ANEVEAPMADPTDVPITPCELTAAKNAAOQLVLSADNMBEYLAAGKERQRLATSLRNA 600
DB 538 PPAAPATVPAPPAANTPNAQCPDPNAAPPADPNAPPPVLAIPNAPQPR----- 589
QY 601 AKAYGEVDEBAATLNDDEGTVQAESAGAVGGS-----SALTTPPVAATAGEPNF- 653
DB 601 AKAYGEVDEBAATLNDDEGTVQAESAGAVGGS-----SALTTPPVAATAGEPNF- 653
QY 654 -----NDLKEARKLETGDCASLAHAFADQWNTFNLTLQGDVYKRFPGFD 697
DB 631 GQPPVANDTRIVYLRDQKLYASAEATDSKAAA-----RLSDMGEF--YM 675
QY 698 NMESDAATACEASIDQORQWILHMAKLSAAMAKAQVVAQLHVARREHPYEDYIGLER 757
DB 676 PYGTRINQETVSLD-----ANGVGSASAYEYKFSKDPKNGQIWTGVIGSPA 724
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QY 758 LYANENPSARDQIIPVTAEQKSEKYLTEYN-----KAALEPNVP-PKPPPAIKIDP 809
DB 725 ANAPDAGPPQMRPVW-----LGTANNPVDKGAALAESIRPLVAPPAP-----P 770
QY 810 PPPQEGGLIPFLMPPSDSGVTPGCMPAAPVMPPTGSPGGGLPA 856
DB 771 APAPAEPA-----PAPAPAGEVAP-----TPPTPTPORTLPA 802

RESULT 6
US-10-359-460-10
; Sequence 10, Application US/10359460
; Publication No. US2003014791A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Melo, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: and Their Uses
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/10/359,460
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US/09/287,849
; PRIOR FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: tetra-fusion
US-10-359-460-10

Query Match      53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHNVIDIIGTSTPTSWEQAAAEAVQPARDSVDDIRVARYIEQMAVDSAGKITYRI 60
DB 1 MGHNNHHNVIDIIGTSTPTSWEQAAAEAVQPARDSVDDIRVARYIEQMAVDSAGKITYRI 60
QY 61 KLEVSFPMRAOPRCGSPGSGSPETGAGATVATTASSPVTLAETGSLTLPLFNLWG 120
DB 61 KLEVSFPMRAOPRCGSPGSGSPETGAGATVATTASSPVTLAETGSLTLPLFNLWG 119
QY 121 PAFHERYPNTVTTAOGTSGAGIAQAAAAGTVNIGASDAYLSEGDMAAHKGLMNTALISA 180
DB 120 PAFHERYPNTVTTAOGTSGAGIAQAAAAGTVNIGASDAYLSEGDMAAHKGLMNTALISA 179
QY 181 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKTWDDPQIAALNPGVNLPGTAVVPLHSDGS 240
DB 180 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKTWDDPQIAALNPGVNLPGTAVVPLHSDGS 239
QY 241 GDFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 300
DB 240 GDFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAQLGNSSGNFLPDAQSIQAAAAAFASKTPANQALSMIDGPADGY 360
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Db 300 ISFLDASQSGLEAOLGNSSGNFLPDAQSIOAAAAGFASKTPANQAISMIDGPAVDG 359
Qy 361 PIINYEYAIVNNRQKDAATQTLQAFLHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 420
Db 360 PIINYEYAIVNNRQKDAATQTLQAFLHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 419
Qy 421 ATISSAEMKTDAATTAQEAENFERISGDLKTOIDOVESTAGSIQOGWRGAAGTAQAAYV 480
Db 420 ATISSAEMKTDAATTAQEAENFERISGDLKTOIDOVESTAGSIQOGWRGAAGTAQAAYV 479
Qy 481 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMFTQSQTUVTVOQOELINR 540
Db 480 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMFTQSQTUVTVOQOELINR 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOLVLSADNMREYLAAGAKERQRLATSLRNA 600
Db 538 PRPATPVPAPPPAANTPNAQCGDNNAAAPPADPNAPPPVIAAPNAPQVVR----- 589
Qy 601 AKAYGEVDEBAATALNDGEGTVQASAGAVGDS-----SALTDTPRVATAGEBNF- 653
Db 590 -----IDNPVGGFSFALPAGWVESDAHFYGSALLS-----KTTGDPFPF 630
Qy 654 -----MDLKEARKLETGDOGASLAHFADGNTFNLTOGDYKRRFRGPD 697
Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDWGEF--YM 675
Qy 698 NMEGDATACEASLDQORQWILHMAKLSAAMAKOQVLAQLHWAREHREHYEDIQELER 757
Db 676 PYGTGINTGETVLD-----ANGVSGASAYEVFSPDSKNGOIWGVIGSPA 724
Qy 758 LAENESARDQILPVYAEVQORSEKVLTEYN-----KALEPVNP-KXPPAIKIDP 809
Db 725 ANAPDAGPPQRFVWV-----LGTANNPVDKGAALASIRPLVAPPA-----P 770
Qy 810 PPPQOGLIFGLMPPSDSGVTFCGMPAAMVPTGSPGGGLPA 856
Db 771 APAPAPPA-----PAPAPAGEVAP-----TPPTPPORTLPA 802

RESULT 7
US-11-028-898-214
; Sequence 214, Application US/11028898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skelky, Yasir A.W.
; Dillon, Devin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Iodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; APPLICATION NUMBER: US/11/028,898
; FILING DATE: 03-Jan-2005
; CLASSIFICATION: <Unknown>

```

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 03-Jan-2005
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 214:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 214:
US-11-028-898-214

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```

Query Match 53.2%; Score 2700; DB 6; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

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Qy 1 MGHNNHHVYIDITGTSPTSEQAARAVQARSDSDIVARVIEDMAVDSAGKITYRI 60
Db 1 MGHNNHHVYIDITGTSPTSEQAARAVQARSDSDIVARVIEDMAVDSAGKITYRI 60
Qy 61 KLEVSFKMRPAOPRCGSKPPSGSPETGAGAGTATTPASSPYTLATGSTLYPLFNLWG 120
Db 61 KLEVSFKMRPAOPRCGSKPPSGSPETGAGAGTATTPASSPYTLATGSTLYPLFNLWG 119
Qy 121 PAFHERYVNTTITAGCTGSGAGTAAAGTIVNIGASDAYLSEGDMAAHKLNIALAISA 180
Db 120 PAFHERYVNTTITAGCTGSGAGTAAAGTIVNIGASDAYLSEGDMAAHKLNIALAISA 179
Qy 181 QOVNVLPGVSEHLKNGKYLAAMYCGTITKTWDDPOIALNPGVNIPTGAVVPLHRSDDS 240
Db 180 QOVNVLPGVSEHLKNGKYLAAMYCGTITKTWDDPOIALNPGVNIPTGAVVPLHRSDDS 239
Qy 241 GDTFLFTOYLSKDPREGWKSPEGFTTVDPPAPGALGNGNGAMVTCAGETGCVAAYIG 300
Db 240 GDTFLFTOYLSKDPREGWKSPEGFTTVDPPAPGALGNGNGAMVTCAGETGCVAAYIG 299
Qy 301 ISFLDASQSGLEAOLGNSSGNFLPDAQSIOAAAAGFASKTPANQAISMIDGPAVDG 360
Db 300 ISFLDASQSGLEAOLGNSSGNFLPDAQSIOAAAAGFASKTPANQAISMIDGPAVDG 359
Qy 361 PIINYEYAIVNNRQKDAATQTLQAFLHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 420
Db 360 PIINYEYAIVNNRQKDAATQTLQAFLHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 419
Qy 421 ATISSAEMKTDAATTAQEAENFERISGDLKTOIDOVESTAGSIQOGWRGAAGTAQAAYV 480
Db 420 ATISSAEMKTDAATTAQEAENFERISGDLKTOIDOVESTAGSIQOGWRGAAGTAQAAYV 479
Qy 481 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMFTQSQTUVTVOQOELINR 540
Db 480 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMFTQSQTUVTVOQOELINR 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOLVLSADNMREYLAAGAKERQRLATSLRNA 600
Db 538 PRPATPVPAPPPAANTPNAQCGDNNAAAPPADPNAPPPVIAAPNAPQVVR----- 589
Qy 601 AKAYGEVDEBAATALNDGEGTVQASAGAVGDS-----SALTDTPRVATAGEBNF- 653
Db 590 -----IDNPVGGFSFALPAGWVESDAHFYGSALLS-----KTTGDPFPF 630
Qy 654 -----MDLKEARKLETGDOGASLAHFADGNTFNLTOGDYKRRFRGPD 697
Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDWGEF--YM 675

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[illegible]

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RESULT 8
US-11-028-898-351
; Sequence 351, Application US/11028698
; Publication No. US20050136069A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.,
Skelky, Yasir A.W.,
Dillon, Davin C.,
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.,
Twardzik, Daniel R.,
Lodes, Michael J.,
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411c9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 351:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 351:
US-11-028-898-351

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Query Match	53.2%;	Score 2700;	DB 6;	Length 802;
Best Local Similarity	66.6%;	Pred. No. 2.6e-147;		
Matches 591;	Conservative 27;	Mismatches 153;	Indels 116;	Gaps 15;
QY	1	MGHHHHHVIDIGTSPTSEQAAAEVQARDSVDDIRVARVIEQDAVNSAGKITTRI	60	

D6	1	MGHHHHHVIDIIGTSPTSWEBAABEAQBARSDVDDIRVAVTEBQDMVDSAGKITTYRI	60
QY	61	KLEVSFKRPAOPRCGSKPSCGSPBTGAGATVATTPASSPVTLAETGTLYPELNLWG	120
D6	61	KLEVSFKRPAOPR-GSKRPSGSPBTGAGATVATTPASSPVTLAETGTLYPELNLWG	119
QY	121	PAFERHYNNVTTAGCTGGGAGIAAAGAGTVNIGASDAVLSGSDMAHHGMLNITALISA	160
D6	120	PAFERHYNNVTTAGCTGGGAGIAAAGAGTVNIGASDAVLSGSDMAHHGMLNITALISA	179
QY	181	QOVVNNLPGEVSEHLKLNKGKVLAAAMQGTIKTMDDPQIALNPGVNLPGTAVVPLHRSDGS	240
D6	180	QOVVNNLPGEVSEHLKLNKGKVLAAAMQGTIKTMDDPQIALNPGVNLPGTAVVPLHRSDGS	239
QY	241	GDTFLFTOYLSKODEBGWKGSPGFGTTYVDFPVPALGNGNGMVTGCAETPCYAYIG	300
D6	240	GDTFLFTOYLSKODEBGWKGSPGFGTTYVDFPVPALGNGNGMVTGCAETPCYAYIG	299
QY	301	ISPLDOASORGIGEGEOLGNSGSGNFLPRAOSIOAAAGASTKPNANOASIMIDGPAPDG	360
D6	300	ISPLDOASORGIGEGEOLGNSGSGNFLPRAOSIOAAAGASTKPNANOASIMIDGPAPDG	359
QY	361	PIINVEYAIVNNRQKAACTOQLQAFLHMAITDGNKASFLDOVHFOPRLPVAVKLSDALI	420
D6	360	PIINVEYAIVNNRQKAACTOQLQAFLHMAITDGNKASFLDOVHFOPRLPVAVKLSDALI	419
QY	421	ATISSAEKKTDAITLAQAGNFERISGDLKTOIDOVESTAGSLQCGWRGAAGTAAOAAVY	480
D6	420	ATISSAEKKTDAITLAQAGNFERISGDLKTOIDOVESTAGSLQCGWRGAAGTAAOAAVY	479
QY	481	RFOEANKOKOLEISTINIRQAGVYRABEEOOALSSOMGFGTQSVTVYDQGBILNR	540
D6	480	RFOEANKOKOLEISTINIRQAGVYRABEEOOALSSOMGFGV-PTTAAISPSTAAA	537
QY	541	ANEVEAPADAPPTDVPITPCEITLAKNAQAOLVLSADNMRBYLAAKAKEROLATISLNA	600
D6	538	PPAPATPAPAPPAANTPMAOPGDPNNAAPRADNAPRPVIAIPNAPQVPR-----	589
QY	601	AKAYGEVDEAATLADNDGEGTVOAESAGAVGDS-----SABLTDTPRVATAGEPNF-	653
D6	590	-----IDNPVGFGFSFALPWGWESDAAPHFDYGSAIIS-----KTTGDPFPF	630
QY	654	-----MDLKEAARKLEYLEGDCQASLAFHFDGQNTFNLTQIGDYKRRRGED	697
D6	631	GQPPVANDTRI VTLGRLDQKLYASAEATDSKAA-----RIGSDMGEE--YM	675
QY	698	NMEGDATACASLIDQOROWILHMAKLSAAMAKQAOYVAQLTHVMARREHPTEYDIQGLER	757
D6	676	PYRPGTRINGERVSLD-----ANGVSSASATYEVKFPDPSKPNQOIMTGVIGSPA	724
QY	758	LYAENSPARDQILPYVAYEQORSEKVLTEYNN-----KAALEPVN- PKPEPALIKIDP	809
D6	725	ANAPDAGCPQWFFVW-----LGTANNPVDKGAAKALAESIRPLVAPBPA-----P	770
QY	810	PPPGQEOGLIGFLMPSPDSGVTPTGTGMRAAPMTPRPGSPCGGJLPA	856
D6	771	APAPAEPA-----PAPAPAGBVA-----TPTTPTPQRTTLPA	802

RESULT 9
 US-11-082-005-209
 Sequence 209, Application US/11082005
 Publication No. US2005018149A1
 GENERAL INFORMATION:
 APPLICANT: Reed, Steven G.
 Skelky, Yasir A.M.
 Dillon, Davin C.
 Campos-Neto, Antonia
 Houghcon, Raymond
 Vedvitzk, Thomas S.
 Twardzik, Daniel R.
 Lodes, Michael J.

```

/ Hendrickson, Ronald C.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
/ TUBERCULOSIS
/ NUMBER OF SEQUENCES: 350
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: SEED and BERRY LLP
/ STREET: 6300 Columbia Center, 701 Fifth Avenue
/ CITY: Seattle
/ STATE: Washington
/ COUNTRY: USA
/ ZIP: 98104-7092
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/11/082,005
/ FILING DATE: 15-Mar-2005
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/10/193,002
/ FILING DATE: 10-Jul-2002
/ APPLICATION NUMBER: US/09/072,596
/ FILING DATE: 05-MAY-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Maki, David J.
/ REGISTRATION NUMBER: 31,392
/ REFERENCE/DOCKET NUMBER: 210121.417C9
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (206) 622-4900
/ TELEFAX: (206) 682-6031
/ INFORMATION FOR SEQ ID NO: 209:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 802 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ SEQUENCE DESCRIPTION: SEQ ID NO: 209:
US-11-082-005-209

Query Match 53.2%; Score 2700; DB 6; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHNVIIIGTSPTEWQAABAVORABDSVDIRVAVREODMAVDSAGKTYRI 60
DB 1 MGHNNHNVIIIGTSPTEWQAABAVORABDSVDIRVAVREODMAVDSAGKTYRI 60
QY 61 KLEVSFMRPAOPRCGSKPPSGSPETGAGATVATTPASSPVTLAETGTLTYPLFNLWG 120
DB 61 KLEVSFMRPAOPRCGSKPPSGSPETGAGATVATTPASSPVTLAETGTLTYPLFNLWG 119
QY 121 PAHERYRNTTITTOGTSGAGTAAAGVYNICASDAIYISEGDMAHKGMNTALAISA 180
DB 121 PAHERYRNTTITTOGTSGAGTAAAGVYNICASDAIYISEGDMAHKGMNTALAISA 179
QY 181 QOVNVMNPGVSEHKLNKGKVLAAAYOGTITKTWDDPQIALNPGVNLGTVVPLHRS DGS 240
DB 181 QOVNVMNPGVSEHKLNKGKVLAAAYOGTITKTWDDPQIALNPGVNLGTVVPLHRS DGS 239
QY 241 GDFLFTQVLSKODPEGMGSKPGFGTTPDPAVPGALGNGNGMVTGCAETPGCVAYIG 300
DB 241 GDFLFTQVLSKODPEGMGSKPGFGTTPDPAVPGALGNGNGMVTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAQLGNSGNFLPLDPAOSIQAAAAFPASKTPANQAISMIDPAPDGY 360
DB 301 ISFLDQASQGLGEAQLGNSGNFLPLDPAOSIQAAAAFPASKTPANQAISMIDPAPDGY 359
QY 361 PIINVEYAIYNNRQKAAATQTLQAFIHMALITDGNKASFLDOVHFOPLPRAVYVLSALI 420
DB 361 PIINVEYAIYNNRQKAAATQTLQAFIHMALITDGNKASFLDOVHFOPLPRAVYVLSALI 419

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QY 421 ATTSANEMTKDAAATLAQEAENFERISGDKITQIDOVESTAGSLQGWGGAAGTAAQAAVY 480
DB 420 ATTSANEMTKDAAATLAQEAENFERISGDKITQIDOVESTAGSLQGWGGAAGTAAQAAVY 479
QY 481 RFOEANKOKOELDEISTNIRQAGVQYSRADDEOQALSSQMGFTOSQTVTVDOOEILNR 540
DB 480 RFOEANKOKOELDEISTNIRQAGVQYSRADDEOQALSSQMGFTV--PTTAASPPETA 537
QY 541 ANEVEAPMADPPTDVEITPCELTAAKNAQQLVLSADNNREYTLAAGKERORLATSLRNA 600
DB 538 PPAATPVPAPPPPAANTPNAOPGDPNAPPPADPNAPPPVYAPVAPQPVV----- 589
QY 601 AKAYGEVDEEATALDNDGEVTQAESAGAVGSDS-----SABLTDTRVATAGPNF- 653
DB 590 -----IDNPVGFSFALPACWVESDAHFPYGSALLS-----KTGDPPPP 630
QY 654 -----MDLKEARKLETGDOGASLHAFADGWNFTFNLTLQGVYKPERGPD 697
DB 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDWGEF--YV 675
QY 698 NMEGDAATACASLDQQRQWILHMAKLASAMAKQOYVAQLHWYARRHEPTEDYGLER 757
DB 676 PYGTRINGETVSLD-----ANGVSGSASYEVKFSPPKNGQIWTGVIGSPA 724
QY 758 LVANESADQILPYVAEYQQRSEKTLTEYN-----KALEPVNP-PKPPPAIKIDP 809
DB 725 ANAPDAGPPQRMFVW-----LGTANNEVDKAAKAALESIRPLVAPPPA----P 770
QY 810 PPPQOGLIPFLMPSPDSGVTPTGMPAAMPVPTGSPGGGLPA 856
DB 771 APAPAEPA-----PAPAPAGEVAP-----TTTTTPQRTLPA 802

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RESULT 10

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US-11-082-005-346
/ Sequence 346, Application US/11082005
/ Publication No. US20050181419A1
/ GENERAL INFORMATION:
/ APPLICANT: Reed, Steven G.
/ Skelky, Yasir A.W.
/ Dillon, David C.
/ Campos-Nero, Antonia
/ Houghton, Raymond
/ Vedvick, Thomas S.
/ Twardzik, Daniel R.
/ Lodes, Michael J.
/ Hendrickson, Ronald C.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
/ TUBERCULOSIS
/ NUMBER OF SEQUENCES: 350
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: SEED and BERRY LLP
/ STREET: 6300 Columbia Center, 701 Fifth Avenue
/ CITY: Seattle
/ STATE: Washington
/ COUNTRY: USA
/ ZIP: 98104-7092
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/11/082,005
/ FILING DATE: 15-Mar-2005
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/10/193,002
/ FILING DATE: 10-Jul-2002
/ APPLICATION NUMBER: US/09/072,596
/ FILING DATE: 05-MAY-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Maki, David J.

```


REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 346:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 346:
US-11-082-005-346

Query Match 53.2%; Score 2700; DB 6; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHHHHHVIDIIGTSPTEWQAAAEAVORARSDVDIRVARVTEODMAVDSAGKITRYRI 60
DB 1 MGHHHHHVIDIIGTSPTEWQAAAEAVORARSDVDIRVARVTEODMAVDSAGKITRYRI 60
QY 61 KLEVSFMRPAQPRCSKPPSGSPETGAGATVATTPASSPVTLAETGTLTYPLFNLWG 120
DB 61 KLEVSFMRPAQPRCSKPPSGSPETGAGATVATTPASSPVTLAETGTLTYPLFNLWG 119
QY 121 PAFHERPNTVTTAOGTSGAGTAAAGTAVNIGASATYISEGMAHKGIMNTALISA 180
DB 120 PAFHERPNTVTTAOGTSGAGTAAAGTAVNIGASATYISEGMAHKGIMNTALISA 179
QY 181 QOVNVLPGVSEHLKNGKVLAAVYOGTITKMDPQIALNPGVNLPGTAVVPLHRS DG 240
DB 180 QOVNVLPGVSEHLKNGKVLAAVYOGTITKMDPQIALNPGVNLPGTAVVPLHRS DG 239
QY 241 GDFLFTQVLSKODPEGMGKSPGFTTVDEPAVPGALGNGNGMVTGCAETPGCVAYIG 300
DB 240 GDFLFTQVLSKODPEGMGKSPGFTTVDEPAVPGALGNGNGMVTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGBAQCINSSGNFLPDQOSIQAAAAGFASKTPANQAIMIDGPADGY 360
DB 300 ISFLDQASQGLGBAQCINSSGNFLPDQOSIQAAAAGFASKTPANQAIMIDGPADGY 359
QY 361 PIINVEYAIYNNRQKDAATQTLQAFIHMALITDGNKASFLDQVHFOPLPAVVALSLALI 420
DB 360 PIINVEYAIYNNRQKDAATQTLQAFIHMALITDGNKASFLDQVHFOPLPAVVALSLALI 419
QY 421 ATISSAEMKTDATLAQEAQNFERSISGLTKTOIDQVESTAGSLQGWGAAGTAQAQAVV 480
DB 420 ATISSAEMKTDATLAQEAQNFERSISGLTKTOIDQVESTAGSLQGWGAAGTAQAQAVV 479
QY 481 RPOEANKKQOEIDEISTNIRQAGVOYSRADDEEQOALSOMGFTQSGQVTVDDQOEILNR 540
DB 480 RPOEANKKQOEIDEISTNIRQAGVOYSRADDEEQOALSOMGFTV--PTTAASPPSTAAA 537
QY 541 ANVEAPMADBPDPVPTTPELTAARKAAQOVLISADNMEYLAAGAKHQRLATSLRNA 600
DB 538 PPAAPFVAPPPAANTPNAQCPDPNAPPPAAPPVPAAPVPAAPVPAAPVPAAPVPAAPV 589
QY 601 AKAYGEVDEAATLADNDGEGTVAQESAGAVGDS-----SALTTTPRATVAGEBNF- 653
DB 590 -----IDNPVGGFSPALPAGVNESDPAHFDGSLLS-----KTTGDDPPF 630
QY 654 -----MDLKAARKLETGDOGASLAHFPADGWTFNLTLOGDVKFRFGFD 697
DB 631 GQPPVANDTRIVLGRIDQKLVSABEATDSKAAA-----RLGSDMEF--YM 675
QY 698 NMEGDATAACEASIDQORQWILIMAKUSAMAKQAOYVAOLHWABREHPTYBIDIVLER 757
DB 676 PYGSTRINQGTSLD-----ANGVSGSASTYEVKSPDSKNGQIWTGVISPA 724
QY 758 LVANESARDQILLVVAEYOORSEKVLTEYNN-----KAALEPVNP-EKPPPAIKIDP 809

DB 725 ANAPDAGPQRMFVW-----LGTANNPVDKCAALAESIRPLVAPPA-----P 770
QY 810 PPPQOGLIPGLMPPSDSGVTPTGTMPAAMPVPTGSPGGGLPA 856
DB 771 APAPAPPA-----PAPAPAGEVAP-----TPTTPTPQRLTPA 802

RESULT 11
US-10-193-002-179
Sequence 179, Application US/10193002
Publication No. US20030135026A1

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yashir A.W.
Dillon, Davin C.
Campos-Neto, Antonia
Houghton, Raymond
Vedivick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193,002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072,596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Mak, David J.

REGISTRATION NUMBER: 31,392

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 179:

SEQUENCE CHARACTERISTICS:

LENGTH: 460 amino acids

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 179:

US-10-193-002-179

Query Match 46.8%; Score 2375; DB 4; Length 460;

Best Local Similarity 100.0%; Pred. No. 7.4e-129;

Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TQSGTTVTDDQOEILNRANVEAPMADBPDPVPTTPELTAARKAAQOVLISADNMEYLA 584
DB 2 TQSGTTVTDDQOEILNRANVEAPMADBPDPVPTTPELTAARKAAQOVLISADNMEYLA 61
QY 585 AGAKHQRLATSLRNAKAGVDEEATLADNDGEGTVAQESAGAVGDSALTTTPR 644
DB 62 AGAKHQRLATSLRNAKAGVDEEATLADNDGEGTVAQESAGAVGDSALTTTPR 121
QY 645 VATAGEBNFMDLKAARKLETGDOGASLAHFPADGWTFNLTLOGDVKFRFGFDWEGDAA 704

Db 122 VATTAGEPNNFMDLKEARKLETEDQGASLAHFPADGNTFNLTLGGDYKRRFGPNNMEGDAA 181
QY 705 TACEASLDQOROWITLHMAKLSAAMAKOAYVAQLHWARREHPTVEDIVGLERLYAENPS 764
Db 182 TACEASLDQOROWITLHMAKLSAAMAKOAYVAQLHWARREHPTVEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVPPKPAIKIDPPPPQOGLIPGFLM 824
Db 242 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVPPKPAIKIDPPPPQOGLIPGFLM 301
QY 825 PPSDGSVTPGTGMPAAPVPPPGSGGLPAPDTAQLTSAGREAAALSGDVAVKAAISIG 884
Db 302 PPSDGSVTPGTGMPAAPVPPPGSGGLPAPDTAQLTSAGREAAALSGDVAVKAAISIG 361
QY 885 GGGGGVPSAPLGSATIGASVVPAGAGDIAGLGGGAGGAAALGGGGMGMPGAHHQOQ 944
Db 362 GGGGGVPSAPLGSATIGASVVPAGAGDIAGLGGGAGGAAALGGGGMGMPGAHHQOQ 421
QY 945 GGAKSQSGQOEDBALYTEDRAMTEAVIGNRRRQDSKSK 983
Db 422 GGAKSQSGQOEDBALYTEDRAMTEAVIGNRRRQDSKSK 460

RESULT 12
US-10-084-843-184
Sequence 184, Application US/10084843
Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedrick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4800
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 184:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 184:

US-10-084-843-184
Query Match 46.8%; Score 2375; DB 4; Length 460;
Best Local Similarity 100.0%; Pred. No. 7.4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVQOORITLIRNANVEEAPMADPPDVITTPCELFAAKNAQAQVLASDNMEYLA 584
Db 2 TOSQTVVQOORITLIRNANVEEAPMADPPDVITTPCELFAAKNAQAQVLASDNMEYLA 61
QY 585 AGAKERQRLATSLRNAAKAYGEVDEEATATLNDGEGTVQASAGAVGDSSELTDTPR 644
Db 62 AGAKERQRLATSLRNAAKAYGEVDEEATATLNDGEGTVQASAGAVGDSSELTDTPR 121
QY 645 VATTAGEPNNFMDLKEARKLETEDQGASLAHFPADGNTFNLTLGGDYKRRFGPNNMEGDAA 704
Db 122 VATTAGEPNNFMDLKEARKLETEDQGASLAHFPADGNTFNLTLGGDYKRRFGPNNMEGDAA 181
QY 705 TACEASLDQOROWITLHMAKLSAAMAKOAYVAQLHWARREHPTVEDIVGLERLYAENPS 764
Db 182 TACEASLDQOROWITLHMAKLSAAMAKOAYVAQLHWARREHPTVEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVPPKPAIKIDPPPPQOGLIPGFLM 824
Db 242 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVPPKPAIKIDPPPPQOGLIPGFLM 301
QY 825 PPSDGSVTPGTGMPAAPVPPPGSGGLPAPDTAQLTSAGREAAALSGDVAVKAAISIG 884
Db 302 PPSDGSVTPGTGMPAAPVPPPGSGGLPAPDTAQLTSAGREAAALSGDVAVKAAISIG 361
QY 885 GGGGGVPSAPLGSATIGASVVPAGAGDIAGLGGGAGGAAALGGGGMGMPGAHHQOQ 944
Db 362 GGGGGVPSAPLGSATIGASVVPAGAGDIAGLGGGAGGAAALGGGGMGMPGAHHQOQ 421
QY 945 GGAKSQSGQOEDBALYTEDRAMTEAVIGNRRRQDSKSK 983
Db 422 GGAKSQSGQOEDBALYTEDRAMTEAVIGNRRRQDSKSK 460

RESULT 13
US-10-510-021-71
Sequence 71, Application US/10510021
Publication No. US20050220811A1
GENERAL INFORMATION:
APPLICANT: Cole, Stewart
APPLICANT: Pym, Alexander S
APPLICANT: Brosch, Roland
APPLICANT: Brodin, Priscille
APPLICANT: Majlessi, Ialeh
APPLICANT: Demangel, Caroline
APPLICANT: Lecerf, Claude
TITLE OF INVENTION: Identification of virulence associated regions RD1 and
TITLE OF INVENTION: RDS leading to improve vaccine of M. bovis BCG and M.
TITLE OF INVENTION: microti
FILE REFERENCE: D20217
CURRENT APPLICATION NUMBER: US/10/510,021
CURRENT FILING DATE: 2004-10-01
PRIOR APPLICATION NUMBER: PCT/IB03/01789
PRIOR FILING DATE: 2003-04-01
PRIOR APPLICATION NUMBER: EP 02/290864
PRIOR FILING DATE: 2002-04-05
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 71
LENGTH: 460
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURES:
OTHER INFORMATION: RV3881c - conserved hypothetical alanine and
OTHER INFORMATION: glycine rich protein
US-10-510-021-71

Query Match 46.8%; Score 2375; DB 5; Length 460;

Best Local Similarity 100.0%; Pred. No. 7.4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVDDQEBILNRANEVEAPADPTVPITPCETLTAKNAAOOLVLSADNMRXYLA 584
| | | | |
Db 2 TOSQTVVDDQEBILNRANEVEAPADPTVPITPCETLTAKNAAOOLVLSADNMRXYLA 61
| | | | |

QY 585 AGAKERORLATSLRNNAKAYGEVDEBAATLNDDEGTVOAESAGAVGDSSELTDTPR 644
| | | | |
Db 62 AGAKERORLATSLRNNAKAYGEVDEBAATLNDDEGTVOAESAGAVGDSSELTDTPR 121
| | | | |

QY 645 VATAGEBNFMDLKEARKLETGOGASLAHFDGWMNTFNLTLOGDVKRFQFDMWEDAA 704
| | | | |
Db 122 VATAGEBNFMDLKEARKLETGOGASLAHFDGWMNTFNLTLOGDVKRFQFDMWEDAA 181
| | | | |

QY 705 TACEASLDQOROMILHMAKLSAAMAKOAYVAOLHWAREBHPTIEDIVGLERLYAENPS 764
| | | | |
Db 182 TACEASLDQOROMILHMAKLSAAMAKOAYVAOLHWAREBHPTIEDIVGLERLYAENPS 241
| | | | |

QY 765 ARDQILPVYAEOQORSEKVLTEYNNKALBPVNPPEKPPAIKIDPPPEOGILPQFLM 824
| | | | |
Db 242 ARDQILPVYAEOQORSEKVLTEYNNKALBPVNPPEKPPAIKIDPPPEOGILPQFLM 301
| | | | |

QY 825 PPSDGSQVTPGTGMPAAPVWPPTGSPGGGLPADTAAOLTSAGREAAALSGDVAVKAASLG 884
| | | | |
Db 302 PPSDGSQVTPGTGMPAAPVWPPTGSPGGGLPADTAAOLTSAGREAAALSGDVAVKAASLG 361
| | | | |

QY 885 GGGGGGVPSAPLGSATGGAESVVRPAGGDIAGLGGGAGGGAALGGGGMGMPGAAHQG 944
| | | | |
Db 362 GGGGGGVPSAPLGSATGGAESVVRPAGGDIAGLGGGAGGGAALGGGGMGMPGAAHQG 421
| | | | |

QY 945 GGAKSQSGOEDALYTEDRAWTEAVIGNRRRODSKSK 983
| | | | |
Db 422 GGAKSQSGOEDALYTEDRAWTEAVIGNRRRODSKSK 460
| | | | |

RESULT 14
US-11-028-898-184
; Sequence 184, Application US/1102898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/028, 898
; FILING DATE: 03-Jan-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/084, 843
; FILING DATE: 03-Jan-2005
; APPLICATION NUMBER: US/09/072, 967

FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 21021.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4800
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 184:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 460 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 184:
US-11-028-898-184

Query Match 46.8%; Score 2375; DB 6; Length 460;
Best Local Similarity 100.0%; Pred. No. 7.4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVDDQEBILNRANEVEAPADPTVPITPCETLTAKNAAOOLVLSADNMRXYLA 584
| | | | |
Db 2 TOSQTVVDDQEBILNRANEVEAPADPTVPITPCETLTAKNAAOOLVLSADNMRXYLA 61
| | | | |

QY 585 AGAKERORLATSLRNNAKAYGEVDEBAATLNDDEGTVOAESAGAVGDSSELTDTPR 644
| | | | |
Db 62 AGAKERORLATSLRNNAKAYGEVDEBAATLNDDEGTVOAESAGAVGDSSELTDTPR 121
| | | | |

QY 645 VATAGEBNFMDLKEARKLETGOGASLAHFDGWMNTFNLTLOGDVKRFQFDMWEDAA 704
| | | | |
Db 122 VATAGEBNFMDLKEARKLETGOGASLAHFDGWMNTFNLTLOGDVKRFQFDMWEDAA 181
| | | | |

QY 705 TACEASLDQOROMILHMAKLSAAMAKOAYVAOLHWAREBHPTIEDIVGLERLYAENPS 764
| | | | |
Db 182 TACEASLDQOROMILHMAKLSAAMAKOAYVAOLHWAREBHPTIEDIVGLERLYAENPS 241
| | | | |

QY 765 ARDQILPVYAEOQORSEKVLTEYNNKALBPVNPPEKPPAIKIDPPPEOGILPQFLM 824
| | | | |
Db 242 ARDQILPVYAEOQORSEKVLTEYNNKALBPVNPPEKPPAIKIDPPPEOGILPQFLM 301
| | | | |

QY 825 PPSDGSQVTPGTGMPAAPVWPPTGSPGGGLPADTAAOLTSAGREAAALSGDVAVKAASLG 884
| | | | |
Db 302 PPSDGSQVTPGTGMPAAPVWPPTGSPGGGLPADTAAOLTSAGREAAALSGDVAVKAASLG 361
| | | | |

QY 885 GGGGGGVPSAPLGSATGGAESVVRPAGGDIAGLGGGAGGGAALGGGGMGMPGAAHQG 944
| | | | |
Db 362 GGGGGGVPSAPLGSATGGAESVVRPAGGDIAGLGGGAGGGAALGGGGMGMPGAAHQG 421
| | | | |

QY 945 GGAKSQSGOEDALYTEDRAWTEAVIGNRRRODSKSK 983
| | | | |
Db 422 GGAKSQSGOEDALYTEDRAWTEAVIGNRRRODSKSK 460
| | | | |

RESULT 15
US-11-082-005-179
; Sequence 179, Application US/11082005
; Publication No. US20050181419A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP

Job time : 230.768 secs

STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 179:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 179:
US-11-082-005-179

Query Match 46.8%; Score 2375; DB 6; Length 460;
Best Local Similarity 100.0%; Pred. No. 7.4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVDOOELINRANEVEAPMADPPTVPITPCBLTAQKNAQOVLVSADNMREYLA 584
DB 2 TOSQTVVDOOELINRANEVEAPMADPPTVPITPCBLTAQKNAQOVLVSADNMREYLA 61
QY 585 AGAKERQRLATSLRNNAKAYGEVDEEAATALDNDGEGTVOAESAGAVGDSAEITDTPR 644
DB 62 AGAKERQRLATSLRNNAKAYGEVDEEAATALDNDGEGTVOAESAGAVGDSAEITDTPR 121
QY 645 VATAGEBNFMDLKEARKLETGDOGASLAFADGWNFTNLTLQGDVRRFRGFDNWECDAA 704
DB 122 VATAGEBNFMDLKEARKLETGDOGASLAFADGWNFTNLTLQGDVRRFRGFDNWECDAA 181
QY 705 TACEASLDOOROWLTHNAKLSAAMAKOAYVAQLHWARRBHPYEDIVGLERLYAENPS 764
DB 182 TACEASLDOOROWLTHNAKLSAAMAKOAYVAQLHWARRBHPYEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEYQORSEKVLTEYNNKAALBPVNPKEPPPAIKIDPPPPQEGILPGFLM 824
DB 242 ARDQILPVYAEYQORSEKVLTEYNNKAALBPVNPKEPPPAIKIDPPPPQEGILPGFLM 301
QY 825 PRSDGSGVTPTGTMPAAPVWPPTGSPGGGLPADTAQLTSAGREAAALSGDVAVKAAASLG 884
DB 302 PRSDGSGVTPTGTMPAAPVWPPTGSPGGGLPADTAQLTSAGREAAALSGDVAVKAAASLG 361
QY 885 GGGGGGVPSAPLGSATIGASVVRPAGADTAGLGGGAGGAAALGGGGMGMPKGAHOGQ 944
DB 362 GGGGGGVPSAPLGSATIGASVVRPAGADTAGLGGGAGGAAALGGGGMGMPKGAHOGQ 421
QY 945 GGAASKSGSOEDALYTEDRAWTEAVIGNRRRODSKESK 983
DB 422 GGAASKSGSOEDALYTEDRAWTEAVIGNRRRODSKESK 460

Search completed: February 3, 2006, 17:36:13

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:29:30 ; Search time 16.347 Seconds
(without alignments)
704.646 Million cell updates/sec

Title: US-09-688-672a-54

Perfect score: 5072
Sequence: 1 MGHHHHHVIDITGTSPTSM.....RAWTEAVIGNRRQDSKSK 983

Scoring table: BLOSUM62
Gapop 10.0 , Gapect 0.5

Searched: 88029 seqs, 11718060 residues

Total number of hits satisfying chosen parameters: 88029

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA New:
1: /cgn2_6/ptodaca/2/pubpaa/US08_NEW_PUB.pep:*
2: /cgn2_6/ptodaca/2/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodaca/2/pubpaa/US07_NEW_PUB.pep:*
4: /cgn2_6/ptodaca/2/pubpaa/PCT_NEW_PUB.pep:*
5: /cgn2_6/ptodaca/2/pubpaa/US09_NEW_PUB.pep:*
6: /cgn2_6/ptodaca/2/pubpaa/US10_NEW_PUB.pep:*
7: /cgn2_6/ptodaca/2/pubpaa/US11_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	485	9.6	100	7	US-11-041-893-215 Sequence 215, App
2	276	5.4	375	6	US-10-454-437-342 Sequence 142, App
3	166.5	3.3	1461	7	US-11-052-554A-283 Sequence 283, App
4	162.5	3.2	694	7	US-11-052-554A-158 Sequence 158, App
5	160	3.2	5291	7	US-11-052-554A-281 Sequence 281, App
6	157.5	3.1	258	7	US-11-197-315-33 Sequence 33, App1
7	157	3.1	971	7	US-11-052-554A-3 Sequence 3, App1
8	153	3.0	641	6	US-10-848-976-1 Sequence 1, App1
9	152.5	3.0	1236	6	US-10-873-528-109 Sequence 109, App
10	152	3.0	606	7	US-11-052-554A-163 Sequence 163, App
11	150	2.9	1329	7	US-11-052-554A-136 Sequence 136, App
12	148.5	2.9	5712	7	US-11-143-980-47 Sequence 47, App1
13	148	2.9	801	7	US-11-052-554A-166 Sequence 166, App
14	146.5	2.9	783	7	US-11-052-554A-157 Sequence 157, App
15	145	2.9	618	7	US-11-052-554A-150 Sequence 150, App
16	144.5	2.8	318	6	US-10-802-796-727 Sequence 727, App
17	143.5	2.8	1985	7	US-11-173-792-15 Sequence 15, App1
18	143.5	2.8	1985	7	US-11-173-792-17 Sequence 17, App1
19	143.5	2.8	1992	7	US-11-013-759-3 Sequence 3, App1
20	143.5	2.8	1992	7	US-11-013-759-13 Sequence 13, App1
21	143.5	2.8	2047	7	US-11-013-759-4 Sequence 4, App1
22	143.5	2.8	2047	7	US-11-013-759-7 Sequence 7, App1
23	143	2.8	1126	6	US-10-485-517-248 Sequence 248, App1
24	143	2.8	7102	7	US-11-143-980-48 Sequence 48, App1
25	142.5	2.8	1532	6	US-10-821-234-914 Sequence 914, App

26	142.5	2.8	1995	7	US-11-069-834-60 Sequence 60, App1
27	141	2.8	334	6	US-10-802-796-728 Sequence 728, App
28	141	2.8	585	6	US-10-821-234-875 Sequence 875, App
29	141	2.8	1126	7	US-11-075-185-3 Sequence 3, App1
30	140.5	2.8	864	7	US-11-053-100-58 Sequence 58, App1
31	140.5	2.8	1618	6	US-10-984-645-2 Sequence 2, App1
32	140.5	2.8	1627	7	US-11-052-554A-124 Sequence 124, App
33	140	2.8	1381	7	US-11-052-554A-118 Sequence 118, App
34	139.5	2.8	767	7	US-11-052-554A-154 Sequence 154, App
35	139.5	2.8	1985	7	US-11-119-330-2 Sequence 2, App1
36	139.5	2.8	1985	7	US-11-173-792-3 Sequence 3, App1
37	139	2.7	1560	7	US-11-059-982-1 Sequence 1, App1
38	138.5	2.7	715	7	US-11-150-845-14 Sequence 14, App1
39	138	2.7	242	7	US-11-197-315-18 Sequence 18, App1
40	138	2.7	504	7	US-11-053-100-28 Sequence 28, App1
41	138	2.7	507	7	US-11-053-100-31 Sequence 31, App1
42	138	2.7	1538	7	US-11-052-554A-146 Sequence 146, App
43	138	2.7	3073	7	US-11-143-980-50 Sequence 50, App1
44	137.5	2.7	489	7	US-11-053-100-24 Sequence 24, App1
45	137.5	2.7	834	7	US-11-052-554A-212 Sequence 212, App

ALIGNMENTS

```
RESULT 1
US-11-041-893-215
; Sequence 215, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
; APPLICANT: Mahairas, Gregory G.
; TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
; TITLE OF INVENTION: ALTERING AGENTS AND METHODS OF USE
; FILE REFERENCE: 100123.401
; CURRENT APPLICATION NUMBER: US/11/041,893
; CURRENT FILING DATE: 2005-01-24
; PRIOR APPLICATION NUMBER: US 60/616,855
; PRIOR FILING DATE: 2004-10-06
; PRIOR APPLICATION NUMBER: US 60/538,713
; PRIOR FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 295
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 215
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Mycobacteria tuberculosis
; US-11-041-893-215

Query Match          9.6%; Score 485; DB 7; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.6e-23;
Matches 99; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      426 AEMKTDATLQAGNFERISGDLKTQIDQVESTAGSLQGMGAGTAQAAVRFQEA 485
Db      2 AEMKTDATLQAGNFERISGDLKTQIDQVESTAGSLQGMGAGTAQAAVRFQEA 61
Db      62 ANKQKELDEISTNIRQAGVYSRADEEQOALSSQMGF 100

RESULT 2
US-10-454-437-342
; Sequence 342, Application US/10454437
; Publication No. US20050277115A1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Krogger, Burkard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habethauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN HOMEOSTASIS AND ADAPTATION
```

```
FILE REFERENCE: BGI-1286PCN
CURRENT APPLICATION NUMBER: US/10/454,437
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: DE 19931636.8
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19932125.6
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932126.4
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932127.2
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932128.0
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932129.9
PRIOR FILING DATE: 1999-07-19
PRIOR APPLICATION NUMBER: DE 19932226.0
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932920.6
PRIOR FILING DATE: 1999-07-14
PRIOR APPLICATION NUMBER: DE 19932922.2
PRIOR FILING DATE: 1999-07-14
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 442
SEQ ID NO 342
LENGTH: 375
TYPE: PRF
ORGANISM: Corynebacterium glutamicum
US-10-454-437-342
```

```
Query Match 5.4%; Score 276; DB 6; Length 375;
Best Local Similarity 26.2%; Pred. No. 8.3e-10;
Matches 97; Conservative 60; Mismatches 177; Indels 36; Gaps 11;
```

```
75 CGSKPPSGSPETGA---GAGTVAATTPASSPVT--LAETGSTLLYPLFNLMPGFHEHYRN 129
25 CSDNSDSTSSAASSTGSSDASIEGLSGVTGQVAEGASQOASANDYFGIRSEAVSG 84
130 VTTAAGTGGAGIAQAAGTAVNIGASDAVISEGDMANHGKLMN-----IALAISAOV 183
85 ASLALYPPSGSGRTNPAAGQVAFGSDSAMKDDQAAEABRCNGNEMKLPFVIGPVAV 144
184 NYNLPVSEHLKINGKYLAAVYOGTITKTWDDPQIATALNPGVNIPTGAVVPLHRSDSGDT 243
145 AYVLPGV-DTLNEDTNIIAQIFKGEITKMNDEAIASQNEGTDLDPDQISVLYSEESGTS 203
244 FLFTQVLSKQDPPGWMKSGPFGTT--VDFPAVPGALGENNGCVNVCATPGCVAVYIGI 301
204 DNFQKFL-----GASTDIWETEGQPFTEVGS-GAQSNGVASASNIIEGALITVEA 254
302 SFIDQASQRIAGRAQLGNSGNFLLPDQASIOAAAAGFAKTPANQAI-----SMIDPAP 357
255 GF---ANQSGIGVANDIDFGSGPVEL-NAESVVALGLDLFTBCHNMNVVDTDMFANNEA 310
358 DGYPIINYEYAVNNRQDAATQTLQALFMAITTDNKNKASFLDQVHFQPLPAVVYLSLD 417
311 GAVPLILTYEIVCSAGYDETRDQVMDFLVALDSDQ-----DQLEALGYIVPTGSHYD 365
418 ALIATISSAE 427
160 : : : : :
366 RLVAVAEALIQ 375
```

```
RESULT 3
US-11-052-554A-283
Sequence 283, Application US/11052554A
Publication No. US2005028866A1
GENERAL INFORMATION:
APPLICANT: Sachdeva, et al.
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
FILE REFERENCE: 30853/40359A
```

```
CURRENT APPLICATION NUMBER: US/11/052,554A
CURRENT FILING DATE: 2005-02-07
PRIOR APPLICATION NUMBER: US 60/589,227
PRIOR FILING DATE: 2004-07-20
PRIOR APPLICATION NUMBER: IN 173/DEL/2004
PRIOR FILING DATE: 2004-02-06
NUMBER OF SEQ ID NOS: 763
SOFTWARE: PatentIn version 3.3
SEQ ID NO 283
LENGTH: 1461
TYPE: PRF
ORGANISM: Escherichia coli 0157:H7
US-11-052-554A-283
```

```
Query Match 3.3%; Score 166.5; DB 7; Length 1461;
Best Local Similarity 20.5%; Pred. No. 0.021;
Matches 221; Conservative 124; Mismatches 417; Indels 317; Gaps 52;
```

```
8 HVIDIIGTSPTEBWAABEAYORARDSDVDIRAVRIEODMAVDSAGKITFYRIKLEVSFK 67
517 HVLGTIVLADGSNNVLLDPAVTRITLDRGANTIFVYITD--AAGNTGAASRAITLV----- 569
68 MRPAQPRCSKPPSGSPETGAGATVATTPASSPVTL-----AETGSTLLYPLFNLMPG 121
570 -----GVSPLITINTVSGDDIISGAEKAPLITLSTGQAETGQTV---TVTLAQ 617
122 AFHERYPNVTITRQGTGS-GAGIAQAAAGTAVNIGASDAVISEGDMANHGKLMNIALAISA 180
618 SF-----TTTVQADGSWSLITVPAAMGNLDPGAVATASVTDLSGNTGNTSRITTVDS 670
181 QQVNVNVL-----PGVSEHLKINGKYLAAVYOGTIR--- 210
671 QAPALSDILPLTADNITNAESGDDLPITGTTDAQPQIVTVTLNGOT---YGVVQPDG 726
211 TWDDPQIAALNPGVNIPTGAVVPLHRSDSG-----DTFL 245
727 TW-SVTPVAPANTGALADGNATVTASVNDVAGNPSVSVALVDATPTPVITINPATDNYI 785
246 FT-QVYLSKQDPEG--WKSPPFGTGYDFPAVPGALGENNG-----GMTVGCARETRG 294
786 NTEPHAQAQIISGTVGAQAQGDIVTVTLNNVDTTVTVAGGMSGLVPASVVSGLADG-- 843
295 CVAY-IGISFLDQASQRIAGEAQLGNSG-----NFLPDQASIOAAAAGF-----AS 341
844 --SYPVASVSTDAQNGTQSOSLTVTVNTAAPLIGINSIACD-DVYNASEGADLOITGTS 900
342 KTPANQAIEM-IDGPAPDGYPIINYEYAVNNRQDAATQTLQALFMAIT-DGNKASF 399
901 DQPVNTAIVTVLNGQ-----NY-----TTTIDAGNMSVTVPASAVTA 938
400 LDQVHFQPLPAVVK-----LSDALIATISSAEMKTDAAITLQOAGNFERISG 447
939 LQGANV-TVTAATVTDIGNSATASHNVLDVLSALPGVTINPVARDIINAAEAVQAOTISG 997
448 DL--KTQIDVYSTASLQCGMRGAGCTAAQAQVAVFQEAANKQKELDEISINIQAGV 505
998 QVTGAEDGDVITTLTG-----GNTYTVATVSGNLTW-----SDVPAADI 1036
506 Q-YSRADDEEQQAALSQMGFTQSOT--VTVDQOEIINRAN-----EYEAPMADPPTVPIT 558
1037 QALNGNDLTVNASVTNONGNTSGTRDITD-----ANLPGRLRVDYVAGDVVNI--- 1086
559 PCELTAKNAQAQQLVLSADNMREYLAAGAKERQLATSIRNAAKAGVEVDEEAPATLND 618
1087 -----IEHQALVVTGS-----SSGLAESTPLTVTINN-----EYTTAVQAD 1124
619 GEGTVQAESAGAVGSSAELTTPRVAATAGE-----PNFMDLKEARKLET-- 665
1125 GSWSV-----GVTAQVSAWPACTVNIIVSGESSAGNSVSIHPVTVDLTPPAITTTITIA 1179
666 -----GDOGASIAFAFDQMN-----TFNLTLQGVKPRGRF-----DNMEGDAATPACFA 709
1180 TDVYINAAEKADULTISGTTTINVEPQIVTVITGG--KYTTASVADSGSTAVTAIPADL 1237
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QY      710 SLDOORQWILIMAKISAMAMAOQVAAQLAHAREHPTTY-----EDIIGLEHTVAEN 762
Db      1238 SLPESSAAL--ASVSNINGNSASAVHYYSV--DSSAPTTTTIINYASNNIV-----N 1285S
QY      763 PSARDQILLPYVAEYOQSEKXVLTXYNNKKALEPVNPPKPAKIDPPPPQEOGLP- 820
Db      1286 ASEADAGVTGSGTTAEAGQIVT-----ITLNSPTVQTYQATVQAD 1326E
QY      821 ---GLIMPSPGSGVTTPTGTGMPAAMVPTTSGPG--GLPADTAAQL-----TSAGREA 869
Db      1327 GSWSNINIPAAULEALITDGSHTLTAVNDKAGNPASTHTNLVLDLTVPLTINTIAGDDII 1386E
QY      870 -AALSGDVAVKAASLGGGGGGGVSPAPLGS------IGGAESVRAPGADIGLGGG 920
Db      1387 NATEHGQALVIGSGSTGGEAGDVTVTLNLSKTYTTTTLIDASGNWSV-GVPADAVTALGSG 1444

```

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RESULT 4
US-11-052-554A-158
: Sequence 158, Application US/11052554A
: Publication No. US20050288866A1
: GENERAL INFORMATION:
: APPLICANT: Sachdeva, et al.
: TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
: TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
: FILE REFERENCE: 30853/40359A
: CURRENT APPLICATION NUMBER: US/11/052,554A
: CURRENT FILING DATE: 2005-02-07
: PRIOR APPLICATION NUMBER: US 60/589,227
: PRIOR FILING DATE: 2004-07-20
: PRIOR APPLICATION NUMBER: IN 173/DEL/2004
: PRIOR FILING DATE: 2004-02-06
: NUMBER OF SEQ ID NOS: 763
: SOFTWARE: PatentIn version 3.3
: SEQ ID NO 158
: LENGTH: 694
: TYPE: prt
: ORGANISM: Mycobacterium tuberculosis H37Rv
US-11-052-554A-158

```

Query Match	3.2%	Score 162.5	DB 7	Length 694
Best Local Similarity	30.5%	Pred. No. 0.013		
Matches	54	Conservative	6	Mismatches 86; Indels 31; Gaps 4

QY	791	AALPEVNPKEPPPAIKIDPPPEPOEGILPGHLMPPSDSGVTPPTGTGMPAAWVPPTSP	850
Db	228	AGANGVNPTPEPAASTGDSPADVSGIG-----DQTGDSGTGTGHG-----TACTTP	272
QY	851	GGGIPADTAOLTSAGREPAALSGDVAVKAASLGGGGG--GGVPSAPILGSATIGAESEVRP	908
Db	273	TGTCGCGGATATAGSGKATGAGGCGGTGAAGGGGGGNGDGDGVAAGDIATASAFGGCGGNGS	332
QY	909	AGAGDDIAGLGGGRAGGGA-----ALCGGGMCMPMGMAHGGCGAASKSG	951
Db	333	DGVAASGGGGGAGGGAFFVHIATATSTTGSSGGCFGGGNAASAASGADGAGGAGGNG	389

RESULT 5
US-11-052-554A-281
Sequence 281, Application US/11052554A
Publication No. US20050288866A1
GENERAL INFORMATION:
APPLICANT: Sachdeva, et al.
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
FILE REFERENCE: 30853/40359A
CURRENT APPLICATION NUMBER: US/11/052,554A
CURRENT FILING DATE: 2005-02-07
PRIOR APPLICATION NUMBER: US 60/589,227
PRIOR FILING DATE: 2004-07-20
PRIOR APPLICATION NUMBER: IN 173/DEL/2004
PRIOR FILING DATE: 2004-02-06

```

; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 281
; LENGTH: 5291
; TYPE: PRF
; ORGANISM: Escherichia coli 0157:H7
US-11-052-554A-281

```

Query Match 3.2%; Score 160; DB 7; Length 5291;
Best Local Similarity 20.5%; Pred. No. 0.3;
Matches 158; Conservative 98; Mismatches 351; Indels 162; Gaps 29;

QY	2	GHHHHHHVILIGSPSPWEOAAAEVABARDSDDDRVAR--VIEODMAVDSAGKI---	56
Db	2722	GSASHNLAVDT--TAPVLITINTVA-----GDDIINDAEHQAOLVISTGSSGEGADVSV	2774
QY	57	-----TYRIKLEVSFKRPAQPRC-----GSKPSPGSPETGAG---AGVATTPASS	100
Db	2775	VLNKGTYTTLLDASGNMVSQVPADVATLGSQAOTITASVSDRAGNSDDASRTVTVLSLA	2834
QY	101	PV-----TLA-----ETGSTLLXPLPNLMPGFHERYPRNVTTAGTGSAGIAQAAA	148
Db	2835	PVLSINTIAGDDVINATEKSSDLA-----LSGTSQDAGTALITVLNQNYSATTTDASGN	2889
QY	149	GTVNIGASD--AYLSEGDMAAHKGLMNI-----ALAIASAOVVNVLPGVSEHLKLNKYLAA	203
Db	2890	WSVTVPSASVSAVSGALGEATYTSYASTVAOQNSSTSHNVQNTALPGITINPVATDDIINA	2949
QY	204	MYOGTITKWDPOJIALNPGVNLPGTAVVPLHRSDGSDTFLFTQYLSKODPEGWSKPG	263
Db	2950	SEAGSAQT-----ISQGVTAAGASTVVEL-----GKTYTAT-----VQADLSMWS--	2993
QY	264	FGTIVDPRAVPGALGENGNGMVTGCATFECVAYIGISFLDOASQGLGEOIGNSGN	323
Db	2994	-----VPADWQALNGEGLTVNASTVNAVGNTSGTRDITIDASLGLRVDTIAGD	3044
QY	324	FLU-----PDAOSIOAAAQFASKTRPANQAIS-----MIGPARDPGR---IINXEY	367
Db	3045	DVANNIIEHAQAQVITGSSSGPAAQITALLVINNQTATVATVLANGSMVSGVPADVDSWPA	3104
QY	368	AIYNNROKDAATQOTLOAFILHMAITDGNKASFLDOVHFQPLPRAVVLIS-----DALIAT	422
Db	3105	GTINITYTSAGNSAGTORSITHPLTVD-----LTVAIMNSITSDALINAA	3150
QY	423	ISSAEMKTTAATLAEAGNFERISGDIKITOIDOVESTAGSLQCGWRGAAGTAAQAAVRF	482
Db	3151	EKGALLTUSSTGSEVGEAGTVTVTFGGKTY-----TTTVAANGSM--STVPADIALALRD	3204
QY	483	QEAANKOKOBLDEISTNIRQAGVOYS-----RADEBOQALSSQOMFTQS---527	
Db	3205	GDASAOVR--VTVNNGSATATTHEYSVDSAAPTVNTINTIASDNIINNSEAAAGTAVSGTS	3262
QY	528	-----QTVVDDQOELNBRANVEAPMAPDPTDVITPCELTAAKNAAQOVLSDANNREY	582
Db	3263	TAQTQGLTV-----TLNGTNYQTTVVQDGSWSLTPASDLTALLANNGYTLTATVSD---	3314
QY	583	LAAGAKERORLATSLRMAAKAYGEVDEEA-----TALDNDGEGCTVQABESAGAVGDSA	637
Db	3315	-----LAINLGSASRGV--TVDTTAEVISFNTVAGDVINNVHEHIOAQIISGTATG	3363
QY	638	ELDTDRVAVTAGRPENMDLKEARKULETGOQASLHAFADGNMTFNITL	686
Db	3364	AVAGDRIVVITIAQOQVYVSTSDASGNMVSQVPASVIGSLAGTAVTISAKTI	3412

RESULT 6
US-11-197-315-33
; Sequence 33, Application US/1197315
; Publication No. US20060019348A1
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, TETSUO
; TITLE OF INVENTION: A METHOD OF MADS PRODUCING SILK PROTEIN AND GENE
; TITLE OF INVENTION: RECOMBINANT SILK-LIKE PROTEIN WITH ADDED FUNCTIONALITY

[illegible]

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RESULT 9
US-10-873-528-109
; Sequence 109, Application US/10873528
; Publication No. US20050276814A1
GENERAL INFORMATION:
APPLICANT: Microbial Techniques Limited
APPLICANT: Gilbert, Christophe FG
APPLICANT: Hansbro, Philip M
TITLE OF INVENTION: Proteins
FILE REFERENCE: PWC/P211290
CURRENT APPLICATION NUMBER: US/10/873,528
CURRENT FILING DATE: 2004-06-23
PRIOR APPLICATION NUMBER: US/09/769,787
PRIOR FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: GB 9816337.1
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/125164
PRIOR FILING DATE: 1999-03-19
NUMBER OF SEQ ID NOS: 388
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 109
LENGTH: 1236
TYPE: PRT
;
; ORGANISM: Streptococcus pneumoniae
; US-10-873-528-109

```

Query Match	3.0%;	Score 152.5;	DB 6;	Length 1236;
Best Local Similarly	17.4%;	Pred. No. 0.12;		
Matches 154;	Conservative 138;	Mismatches 449;	Indels 143;	Gaps 26;

```

Qy 12 IIGISPTSMEOAAEAVOGRARDSDVDDRVARVIEODM-----AADSAGKITVYIKL 62
Db 123 VWSQTAATAATATATKAKVEEDRKKPASDYYASVTNVNLOSVAKRRRRSYDTSIEQLASTAKN 182
Qy 63 EVSEKMRPAQRCGSKPPSGSPSE-----TGAGAGVATTPASSPVTLAET 107
Db 183 AAVS-----GNTVNGAPALINASINAKSEKVTYTGSGVDSVYRVPVYYIKLKTND 234
Qy 108 GSTLLVPLFNLGPAFHERYENVTITAGTSGAGIAQAAAG--TVNIGAS--DAYLSEGC 163
Db 235 GSKLTFY-----TVVYVNPKNITDIGNISMRPGYSITVNSGTSIQMLTIGS 281
Qy 164 DMAAHKGLMNLALAIISAQV--NYNLPGVSEHLKNGKVLAAMYQCTITKWDPOIAPALN- 221
Db 282 DLGRPSGVKNVITDKNGRQVLSYNTSTMTT-----QSSGYTWANG--AQNNG 326
Qy 222 ----PGVVLPGTAVVPLHRSDSGSDTFLFTQYLSKODEGNGKSPGFTYVDFPAVPGAL 277
Db 327 FFAKKGIGLTSWIVPI--TGTDTSTFTTYAARTDIGINFYNGGKRVBSSTTSOSL 383
Qy 278 GE-----NGNGGMVTCGAETPGCAVYIGISFLDQASORG 311

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Db 384 S0SKSLSTVSAQSGSABASASTSTASABASASTSASASASTSTASASASTSASASAST 443
Qy 312 LGEAOLGNSGNGFLLPDQOSTQAAAAGPASKTPANAOALIMIDGAPDGYPIINYEYAIVN 3711
Db 444 SASASASTSASESASTSASASASTSASASASTSASASASTSASESASTSASESASTSASE 5030
Qy 372 NRQMDAATQTLQATLHMALITDGNKASFLDDQHFPOLPFAVVKLSGALLATISSAEKTD 4311
Db 504 SASSTASASASASTSASASASTSASGASSTSTSTASASTSASASASTSASASISTASE--S 5600
Qy 432 AATTAQOENGFERISGDLTKQLDQVESTPASIGQGWGAGTAPAOAVRFOEPAANKQK 4911
Db 561 ASTASASEAS--TSTASASTSASESASTSASASAS--TSASABASTSTASASASTSABASTS 618
Qy 492 ELDEISTNIRAQVQVRSRA---DEEOQALSGOMGFTOSQTYTVDDQOETLNRANEVAP 547
Db 619 ASEASASTSASASASTSASASASTSASASASTSASASASTSASASTSASASTSASASTSAS 678
Qy 548 MADPPTDVPITPCELTAAKNAAQOLVLSADNREYLA-----AGAKERORLATSLRNA 600
Db 679 ASTSASESASTSASASASTSASASTSASASTSASESASTSASESASTSASASTSASESASTS 738
Qy 601 AKAYEVDVEBEATALDNDGEGTVQABSGAVGDSGAEFLTDPFRVA--TGPEPFMDLKEA 659
Db 739 ASASASTSASASASTSASGASASTSTSTASASTSASASTSASASASTSASESASTSASES 799
Qy 660 ARKLETEGQOASIAFPADGWNTPFNLTLLQDVKFRFGFDWEGGDAATACASALDQ--OROWI 718
Db 799 ASTSTASASASTSASASASTSASASTSASESASTSASESASTSASESASTSASESASTSASE 847
Qy 719 LHMATLSAAMAKQAOQYVAQLHVMARREHP--TYEDIVGELERLYAENSABDQILLPYVAEYQ 777
Db 848 VHLNRHGQVPOQYVLVHQLQ--HORVRHLHQVPAVRLQR-----GVRLQOQVPV---LQ 898
Qy 778 QSESEVLTLEYNNKA-----ALEPVAPPKPRPAIKTIDPPPPQEQ 816
Db 899 SOHQOVLPOKHKOYVRLQOAHQHLNQRRAPLOQVPAVQOPRR 942

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RESULT 10
US-11-052-554A-163
; Sequence 163, Application US/11052554A
; Publication No. US20050288866a1
; GENERAL INFORMATION:
; APPLICANT: Sachdeva, et al.
; TITLE OF INVENTION: COMBINATORIAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
; TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
; FILE REFERENCE: 30853/40359A
; CURRENT APPLICATION NUMBER: US/11/052,554A
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: US 60/589,227
; PRIOR FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: IN 173/DEL/2004
; PRIOR FILING DATE: 2004-02-06
; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis H37Rv
US-11-052-554A-163

```

[illegible]

QY 936 PMGAHQGGGAKSKG 951
DB 519 GPGAFGNGNTGGNG 534

RESULT 11

US-11-052-554A-136
; Sequence 136, Application US/11052554A
; Publication No. US2005028866A1
; GENERAL INFORMATION:
; APPLICANT: Sachdeva, et al.
; TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
; FILE REFERENCE: 30853/40359A
; CURRENT APPLICATION NUMBER: US/11/052,554A
; PRIOR FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: US 60/589,227
; PRIOR FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: IN 173/DEL/2004
; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 136
; LENGTH: 1329
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis H37Rv
US-11-052-554A-136

Query Match 3.0%; Score 150; DB 7; Length 1329;
Best Local Similarity 33.3%; Pred. No. 0.18; Indels 28; Gaps 7;
Matches 53; Conservative 8; Mismatches 70;

QY 829 GSGVTGTGMPAPMVPPTSGGGLPADTAAQLTSGREAAALSGDVAVKAASLGGGCG 888
DB 430 GAGAGAGNAPGAP--PSGDDPNNG--GGAGAGAGGCGGGGAGD-----GGAGG 477
QY 889 GGVPAPLGSALGASVBPAGAG---DIAGGQAGAGGAAAGGGGCMPCGAHQ-- 942
DB 478 AGKGKNGNGANGATGATGATGAGADDTGDKGKNGGAGGGGAGGGG--GKALAAATHQD 536
QY 943 -----GGGAKSKSGQDEALYTEDAATVAVGN 973
DB 537 SMGAGGAGNGAGGAGMGDGGNGAKGTFDNG--GDVGGN 574

RESULT 12

US-11-143-980-47
; Sequence 47, Application US/11143980
; Publication No. US20050272133A1
; GENERAL INFORMATION:
; APPLICANT: He, Min
; APPLICANT: Hucul, John
; APPLICANT: Haltli, Bradley A.
; APPLICANT: Wagenaar, Melissa M.
; APPLICANT: Graziani, Edmund
; APPLICANT: Summers, Mia
; APPLICANT: Kulowski, Kerry
; APPLICANT: Pong, Kevin
; TITLE OF INVENTION: Biosynthetic Gene Cluster for the Production of a Complex
; FILE REFERENCE: AM-101426US
; CURRENT APPLICATION NUMBER: US/11/143,980
; PRIOR FILING DATE: 2005-06-03
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; LENGTH: 5712
; TYPE: PRT

; ORGANISM: Streptomyces sp.
US-11-143-980-47

Query Match 2.9%; Score 148.5; DB 7; Length 5712;
Best Local Similarity 20.1%; Pred. No. 1.7;
Matches 200; Conservative 111; Mismatches 357; Indels 325; Gaps 48;

QY 118 LMGPAPHERYNTVITAOGT-----GGAGTAAQAAGTNNIGASDALSBSGMAH-----K 169
DB 3800 VWVP-----RLVVDVSVGAVVRGAGSGVALVTGTGLG-----GLVAKHLVSAY 3847
QY 170 GLMNIALAISAOOVNVLPGVSEHL-KLNG-----KVLAMYGQITIKTWDDPOLAALNPG 223
DB 3848 GVELEVL-VSRKV--AARGVEELVLEGLGARVRVAC-----DVADRGVAELVGS 3898
QY 224 VMLPGTAVVPLHRS-----DGGDTFLFTOYLSKODEBNG-----KSPGFTVDFP 271
DB 3899 IE--GLRVV-VHAAVGVDDGVIGSLDAERLCGVMGKAWGMHLHRLTGLDLASAFVLS 3955
QY 272 AVFGALGNGNGMTGCAETPCVAV-----IGISFLDAQS--RGIGEAQOLGN 319
DB 3956 SAAGVLGNAGGGGYAANGFLDALAVHRRGRGLPAVSIAWGFWEERSELTADLAEOVLSR 4015
QY 320 SSGNF--LLPDAQSIQAAAAGFASKTPANQASIMIDGAPDPYIINVEYAIVNNRQKDA 377
DB 4016 ISRSVGASISSAGGLDFDAALAADEPMVLA-----TPNLPLAL-----RDQ 4057
QY 378 ATAQTLQAFLLHMAITDGNKASFLDQVHFQPLPPAVVKSALDIATISSAEMKTDAAITLAQ 437
DB 4058 AANGTLPSTLSGLVT-----APVRRTAGTGRT 4084
QY 438 EAGNFERISDLKTQIDQVESTAGSLQGGWRGAAGTAAQAAVVRFOEANKKQOELEIS 497
DB 4085 PAFIRHQOLAG--VTEERHQIWRILVOEHVAVGLHAS-----AELVDAS 4127
QY 498 TNRQAGVQYSRADDEQQOALSQMGFTOSQVTVVQOEILNANEVEAPMADP--PTDVP 556
DB 4128 RTFOEIGFD--SLTAVELRNKRISATGIRLPATVFPHPRLAERVLAEVGSLSLTPAP 4186
QY 557 ITPCEITAAKNAQAOLVLSADNKRREYLAAGAKERQIATSLRNAKAYGEVDEEATALD 616
DB 4187 IAP--VSAVDD--EPYIVGMSCR--FPGSVSEPDLMRLVHSAT-----DAVSALP 4232
QY 617 NDGEETVQAESAGAVGDSASLETD-----TPRVATAGEPNFMIDKEA 659
DB 4233 TD--RGWDLATLSGAKGAGASVARDGFLYDAAEFDAGFEGISPREBATMDPOORLLLEA 4291
QY 660 AKKL-----ETGDGASLAFHADGNTFNLTLOGDVKRFNGFD-----697
DB 4292 AWEVFRAGIAPDTLKGSRTGVFTGVYHDYGSMLT--DVPEVDGVLGTGTAAGSVASG 4348
QY 698 -----NMEGDAA--TACASLDQOROWILHMA-----KLSAAMAKQAQYVAAQLHW 741
DB 4349 RLAYTTFGLBGPALTVTDTACSSSL-----VALHLAASLRGEGSLAAGVTYLA-----4398
QY 742 ARREHPTVEDIVGLERLYAENPSARDQILPVVAEYOQRSEKVLTEYNNKAALEPVNPKP 801
DB 4399 -----TPQVVEFTFROGLAPDGRCKP 4420
QY 802 PPAIKTIDPPPPPOEGILFQFLMPBSDGSVTPGTGM-----PPAPVWPPT 847
DB 4421 FAA-----GADGTGMSGVLGLLVERLSDAERNGHPVLAHV--S 4457
QY 848 GS-----PGGGLPADTAAQLTSGREAAALSG-----DV-AVKAASLGGGGGVPSPAPL 896
DB 4458 GSANVODGASNGLTAPNGSQOVYTHQALANNGLAARDVDVAHAGTGTTLCGPRIEAGAL 4517
QY 897 GSAIG-GAESVBPAGADI-AGLGGRAAGGAAAGGGGCMPCGAHQGGGAKSKSGSQ 954
DB 4518 LATYGGGRDVQGFMLNIGSVKSNIGHTQAAAGVA--GVIGVWAMRH--GVLPRTHV 4570
QY 955 EDEA-----LYTEDRAVTEAVIGNRR 976

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